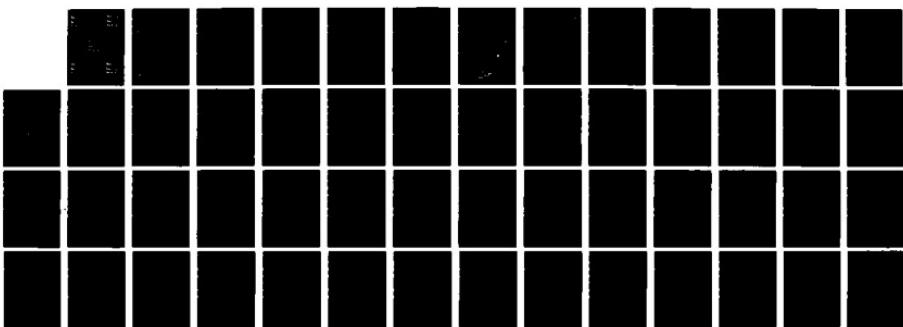
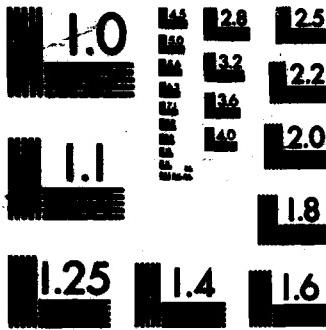


AD-A120 804 28405A ASSAULT BREAKER MISSILE NUMBER 0010 ROUND NUMBER
M8(U) ARMY ELECTRONICS RESEARCH AND DEVELOPMENT COMMAND
WSMR NM ATM. D C KELLER 02 SEP 82 ERADCOM/ASL-DR-1256 1/1
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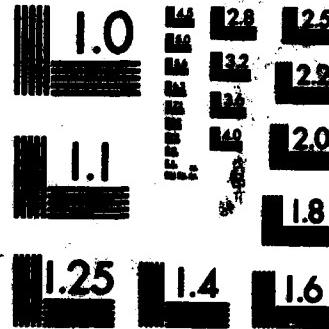


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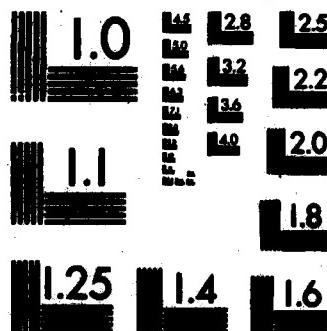
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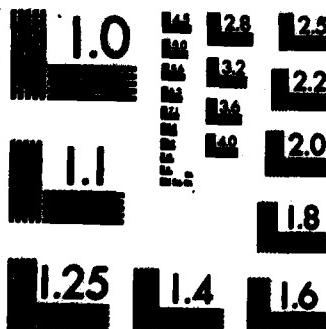
MICROCOPY RESOLUTION TEST CHART
NATIONAL BUREAU OF STANDARDS-1963-A



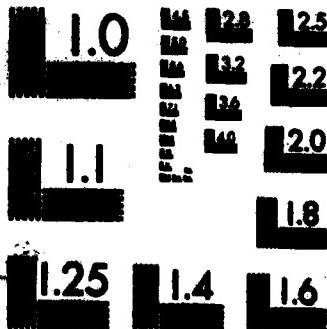
MICROCOPY RESOLUTION TEST CHART
NATIONAL BUREAU OF STANDARDS-1963-A



MICROCOPY RESOLUTION TEST CHART
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MICROCOPY RESOLUTION TEST CHART
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DR 1256
Sep 82
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METEOROLOGICAL DATA REPORT
20405A Assault Breaker
Missile Number 0010
Round Number M8
2 September 1982

by

DONALD C. KELLER
Program Support Coordinator
Phone Number (505) 679-9568
AVN Number 349-9568

ATMOSPHERIC SCIENCES LABORATORY
WHITE SANDS MISSILE RANGE, NEW MEXICO

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REPORT DOCUMENTATION PAGE			READ INSTRUCTIONS BEFORE COMPLETING FORM
1. REPORT NUMBER DR 1256	2. GOVT ACCESSION NO. AD-A120804	3. RECIPIENT'S CATALOG NUMBER	
4. TITLE (and Subtitle) 20405A Assault Breaker Missile Number 0010 Round Number M8		5. TYPE OF REPORT & PERIOD COVERED	
7. AUTHOR(s) White Sands Meteorological Team		6. PERFORMING ORG. REPORT NUMBER DA Task 1F665702D127-02	
9. PERFORMING ORGANIZATION NAME AND ADDRESS		10. PROGRAM ELEMENT, PROJECT, TASK AREA & WORK UNIT NUMBERS	
11. CONTROLLING OFFICE NAME AND ADDRESS US Army Electronics Research & Development Cmd Atmospheric Sciences Laboratory White Sands Missile Range, New Mexico 88002		12. REPORT DATE September 1982	
14. MONITORING AGENCY NAME & ADDRESS (if different from Controlling Office) US Army Electronics Research and Development Cmd Adelphi, MD 20783		13. NUMBER OF PAGES 54	
16. DISTRIBUTION STATEMENT (of this Report)		15. SECURITY CLASS. (of this report) UNCLASSIFIED	
		15a. DECLASSIFICATION/DOWNGRADING SCHEDULE	
17. DISTRIBUTION STATEMENT (of the abstract entered in Block 20, if different from Report) Approved for public release; distribution unlimited.		Accession For DTIC OPRAI DTIC T.D. Declassified Classification	
18. SUPPLEMENTARY NOTES		Distribution/ Availability Code Avail.在外 Special	
19. KEY WORDS (Continue on reverse side if necessary and identify by block number)		STIN COPY INSPECTED 2	A
20. ABSTRACT (Continue on reverse side if necessary and identify by block number) Metereological data gathered for the launching of the 20405A Assault Breaker, Missile Number 0010, Round Number M8 are presented in tabular form.			

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INTRODUCTION

20405A Assault Breaker, Missile Number 0010, Round Number M8, was launched from LC-33, White Sands Missile Range (WSMR), New Mexico, at 0923 MDT on 02 September 1982. The scheduled launch time was 0900 MDT.

DISCUSSION

Meteorological data were recorded and reduced by the White Sands Meteorological Team, Atmospheric Sciences Laboratory (ASL), White Sands Missile Range, New Mexico. The data were obtained by the following methods:

1. Observations

a. Surface

(1) Standard surface observations to include pressure, temperature ($^{\circ}\text{C}$), relative humidity, dew point ($^{\circ}\text{C}$), density (gm/m^3), wind direction and speed, and cloud cover were made at the LC-33 Met Site at T-0 minutes, and the Jallen Met Site at 0900, 0923, and 0953 MDT.

(2) Anemometer data were provided from existing pole-mounted and tower-mounted anemometers at LC-33. Monitor of wind speed and direction from one anemometer was also provided in the launch control room.

b. Upper Air

(1) Low level wind data were obtained from Pilot Balloon observations at:

SITE AND ALTITUDE

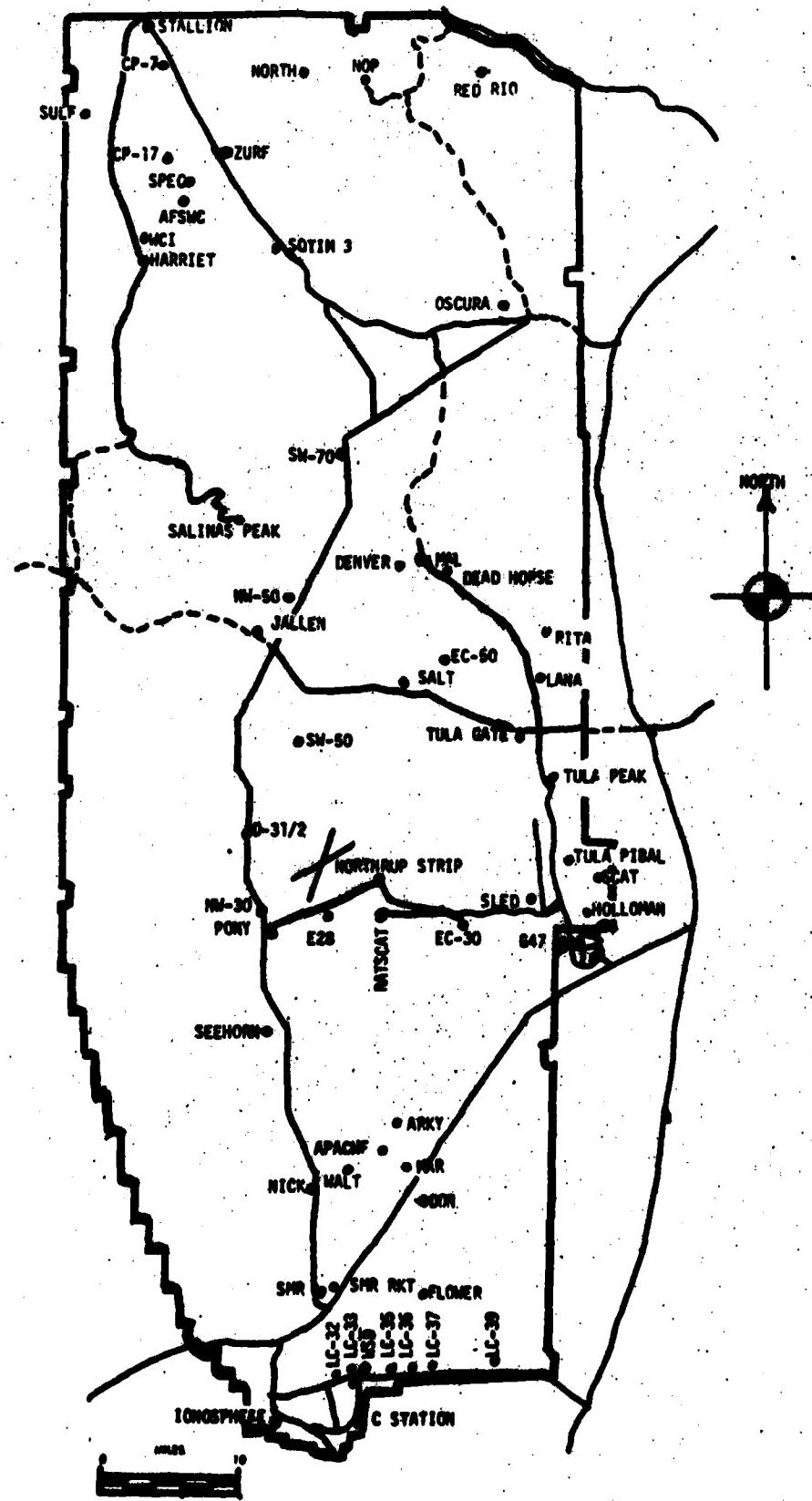
WSD 2760 Meters
Jallen 2700 Meters

(2) Air Structure data (rawinsonde) were collected at the following Met sites.

SITE AND TIME

Jallen	0630 MDT
Holloman	0800 MDT
LC-37	0900 MDT
WSD	0925 MDT
Jallen	1015 MDT

WSMR METEOROLOGICAL SITES



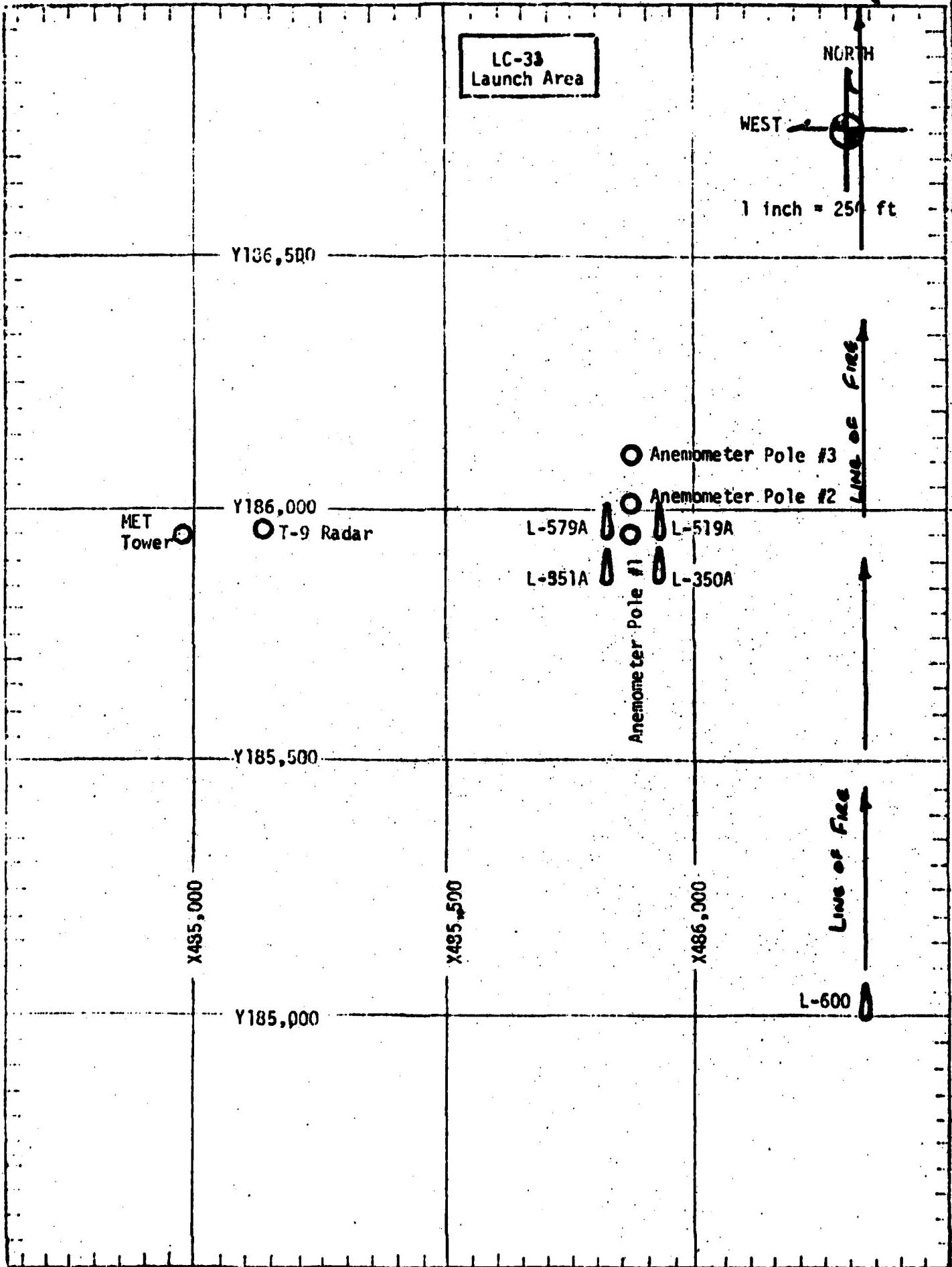


TABLE 2 LC-33 FIXED POLE ANEMOMETER MEASURED WINDS

POLE #1			POLE #2			POLE #3		
T-TIME SEC	DIR DEG	SPEED KTS	T-TIME SEC	DIR DEG	SPEED KTS	T-TIME SEC	DIR DEG	SPEED KTS
T ₋₃₀	015	07	T ₋₃₀	010	04	T ₋₃₀	006	07
T ₂₀	015	06	T ₂₀	009	05	T ₋₂₀	015	10
T ₁₀	015	08	T ₁₀	006	04	T ₋₁₀	013	10
T _{0.0}	015	08	T _{0.0}	010	06	T _{0.0}	013	09
T ₊₁₀	015	07	T ₊₁₀	015	06	T ₊₁₀	011	10

TABLE 3 LC-33 METEOROLOGICAL TOWER ANEMOMETER MEASURED WINDS (202 FT TOWER)

LEVEL #1, 12 FEET X484,982.64, Y185,057.73, H3983.00 (base)			LEVEL #2, 62 FEET X484,982.64, Y185,057.73, H3983.00 (base)		
T-TIME SEC	DIR DEG	SPEED KTS	T-TIME SEC	DIR DEG	SPEED KTS
T ₋₃₀	352	06	T ₋₃₀	009	08
T ₂₀	005	07	T ₋₂₀	010	10
T ₁₀	018	07	T ₋₁₀	011	08
T _{0.0}	017	08	T _{0.0}	014	08
T ₊₁₀	016	08	T ₊₁₀	014	09

LEVEL #3, 102 FEET X484,982.64, Y185,057.73, H3983.00 (base)			LEVEL #4, 202 FEET X484,982, Y185,057.73, H3983.00 (base)		
T-TIME SEC	DIR DEG	SPEED KTS	T-TIME SEC	DIR DEG	SPEED KTS
T ₋₃₀	005	09	T ₋₃₀	015	08
T ₋₂₀	006	09	T ₋₂₀	014	09
T ₋₁₀	005	08	T ₋₁₀	005	09
T _{0.0}	006	08	T _{0.0}	007	09
T ₊₁₀	006	08	T ₊₁₀	010	09

PROJECT SURFACE OBSERVATION

TABLE 4
DATE 02 Sept 1992
TIME 06:00 AM

TIME HRS	PRESSURE mb	TEMPERATURE OF °C	DEW POINT OF °C	RELATIVE HUMIDITY %	WIND DIRECTION deg. To N		DENSITY gm/m ³	CHILL INDEX KCS	VISIBILITY M
					DIR	SPD kts			
0600	980.7	27.5	12.3	33	1012	350	0.6	40	40
023	981.7	26.7	11.5	35	1009	355	0.4	40	40
063	980.8	31.0	13.1	36	1001	300	0.6	CALM	40

OBSTRUCTIONS TO VISIBILITY AND WEATHER	CLARITY		WIND FRICTION		WIND TURBULENCE		WIND TURBULENCE HEIGHT		REMARKS
	DIR	SPD kts	DIR	SPD kts	DIR	SPD kts	DIR	SPD kts	
2	AC	18,000							
1	CU	6,500	2	AC	18,000				
1	CU	6,500	1	AC	18,000				

PSYCHROMETRIC COMPUTATION

TIME:	HT	9800	9830	9853
NET BULB TEMP.		22.5	28.7	31.0
NET BULB TEMP.		17.5	17.5	19.0
NET BULB DEPR.		10.0	11.2	12.0
DEW POINT		12.3	11.5	13.1
RELATIVE HUMID.		39	35	36

PILOT BALLOON MEASURED WIND DATA

TABLE 5

RELEASED FROM WSD

DATE 02 Sep 1982

TIME 0913 MDT

COORDINATES (WSTM) X= 488,852.29 Y= 184,982.45 H= 3993.75

HEIGHTS ARE METERS AGL XX OR FEET AGL _____.

HEIGHT AGL	DIRECTION DEGREES	SPEED KNOTS
SFC	360	10
60	001	08
120	002	06
180	004	06
240	045	03
300	040	06
360	045	05
420	019	03
480	085	02
540	101	01
600	051	03
660	066	04
720	070	04
780	086	05
840	092	04
900	138	04
960	168	01
1020	179	02
1080	207	03
1140	161	01
1200	121	04
1260	097	04
1320	095	05
1380	090	06
1440	095	06
1500	085	06
1560	086	06
1620	075	06
1680	076	07
1740	072	09

PILOT BALLOON MEASURED WIND DATA

TABLE 6

RELEASED FROM WSD

DATE 02 Sep 1982

TIME 0923 MDT

COORDINATES (WSTM) X = 488,852.29 Y = 184,982.45 H = 3993.75

HEIGHTS ARE METERS AGL X OR FEET AGL

HEIGHT AGL	DIRECTION DEGREES	SPEED KNOTS
SFC	360	10
60	003	08
120	006	08
180	012	09
240	021	08
300	056	03
360	035	05
420	038	04
480	092	03
540	049	03
600	074	02
660	066	04
720	066	04
780	091	06
840	110	06
900	098	04
960	081	03
1020	124	01
1080	189	01
1140	164	01
1200	129	02
1260	103	03
1320	097	05
1380	093	05
1440	087	06
1500	090	06
1560	087	06
1620	076	07
1680	080	07
1740	078	08

PILOT BALLOON MEASURED WIND DATA

TABLE 7

RELEASED FROM

JALLEN

DATE 02 Sep 1982

TIME 0830 MDT

COORDINATES (WSTM) X= 451,560.00 Y= 465,177.00 H= 4051.00

HEIGHTS ARE METERS AGL XX OR FEET AGL

HEIGHT AGL	DIRECTION DEGREES	SPEED KNOTS
SFC	360	03
60	001	04
120	001	04
180	002	05
240	002	05
300	002	06
360	005	06
420	015	05
480	031	04
540	051	04
600	072	04
660	090	04
720	097	05
780	104	05
840	109	05
900	115	05
960	120	05
1020	127	05
1080	135	05
1140	144	04
1200	155	04
1260	165	04
1320	169	04
1380	172	05
1440	174	05
1500	176	06
1560	178	06
1620	177	05
1680	174	04
1740	170	03

PILOT BALLOON MEASURED WIND DATA

TABLE 8

RELEASED FROM JALLEN DATE 02 Sep 1982 TIME 0925 MDT
COORDINATES (WSTM) X= 451.560.00 Y= 465,177.00 H= 4051.00

HEIGHTS ARE METERS AGL X OR FEET AGL

HEIGHT AGL	DIRECTION DEGREES	SPEED KNOTS
SFC	355	04
60	356	04
120	357	04
180	358	04
240	359	04
300	360	04
360	003	04
420	013	03
480	030	02
540	057	02
600	087	02
660	107	03
720	114	03
780	118	04
840	121	04
900	124	05
960	126	05
1020	131	05
1080	138	05
1140	146	04
1200	154	04
1260	162	04
1320	163	04
1380	162	05
1440	161	05
1500	160	05
1560	159	05
1620	152	04
1680	144	04
1740	134	04

PILOT BALLOON MEASURED WIND DATA

TABLE 9.

RELEASED FROM JALLEN DATE 02 Sep 1982 TIME 0955 MDT
COORDINATES (WSTM) X = 451,560.00 Y = 465,177.00 H = 4051.00

HEIGHTS ARE METERS AGL XX OR FEET AGL _____.

HEIGHT AGL	DIRECTION DEGREES	SPEED KNOTS
SFC	000	00
60	050	01
120	050	01
180	050	01
240	050	02
300	050	02
360	054	02
420	071	02
480	089	02
540	104	02
600	116	03
660	125	03
720	127	04
780	119	04
840	117	04
900	115	05
960	114	05
1020	117	05
1080	122	05
1140	128	04
1200	136	04
1260	145	04
1320	152	03
1380	160	04
1440	168	03
1500	176	03
1560	184	03
1620	173	03
1680	157	03
1740	141	03

AIMING COMPUTER MET MESSAGE

JALLEN 0630MDT

METCM1332065

021250124880

00640005 29350880

01046009 29810870

02043005 29940846

03155002 29780808

04377005 29470763

05288002 29060720

06069005 28640678

07111012 28190639

08110013 27750601

09121011 27360565

10130009 26970531

11119007 26620498

12069009 26180452

13016020 25500396

STATION ALTITUDE 4051.0 FEET MSL
2 SEP. 82 0630 HRS PDT
ASCENSION NO. 127

SIGNIFICANT LEVEL DATA
2450030127
JALLEN
TABLE 11

GEOGRAPHIC COORDINATES
33°16'12" LAT DEG
106°49'51" LON DEG

PRESSURE GEOMETRIC MILLIBARS MSL FEET	TEMPERATURE AIR DEPOINT DEGREES CENTIGRADE	REL.HUM. PERCENT
280.3	4051.0	10.3
876.1	4186.6	19.0
168.9	4423.0	21.1
550.0	5057.0	25.2
203.1	6509.7	23.4
759.5	8277.3	19.9
730.0	10566.2	14.4
658.9	12234.7	10.1
632.9	12330.5	7.1
529.5	14727.9	3.2
575.3	15382.7	0.7
559.3	16626.3	-1.5
551.7	16995.4	-1.5
536.5	17715.2	-3.6
528.7	18095.2	-4.4
500.0	19536.2	-7.4
461.9	19954.6	-15.1
477.9	20690.9	-19.7
661.5	21574.6	-11.9
456.7	21878.4	-11.2
469.9	22217.5	-10.8
400.0	25152.6	-1.6
755.5	28016.7	-25.0
743.7	28822.5	-26.2
500.0	32209.5	-24.1
269.3	34469.1	-19.8
230.0	36177.4	-14.2
200.0	40927.0	-5.3
185.1	42535.2	-5.4
177.1	47444.1	-6.5
165.5	44827.8	-10.7
157.9	45788.0	-10.5
150.0	44377.0	-12.1
126.0	48315.9	-7.6
121.8	51072.6	-7.6
115.0	52166.0	-6.7
164.8	53999.6	-6.9
130.0	54971.4	-6.9
55.6	57964.9	-4.7
70.0	62032.6	-6.5

STATION ALTITUDE 4000±300 FEET
2 SEP. 82
ASCENSION NO. 127

TRAILER 12
TRAILER LINE
2650030127
APPENDIX A 10101A

GEOMETRIC PRESSURE = TEMPERATURE, ALTITUDE AND DENSITY IN PSEUDOS OF AIR AT SUBROTINTE PERCENTAGE CHAUBICOUSSUNG DIAMETRATIONSPIESPEEL OF ALTITUDE MILLIARS DEGREES. CENTS GRADE NSL FEET.

STATON ADDITIVE 402000 1000000 1000000
ACRYLIC RESIN No. 127

0001311C 0000011115

ATMOSPHERIC PRESSURE IN MILLIBARS	ATMOSPHERIC TEMPERATURE IN DEGREES CENTIGRADE	DENSITY OF WATER IN METERS PER CENT	DENSITY OF AIR IN CUBIC METERS PER KILOGRAM	WIND SPEED IN METERS PER SECOND	DIRECTION DEGREES LTM	WIND SPEED IN KNOTS	REFRACTION INDEX
14000.0	-148.9	386.2	378.4	-141.7	-161.1	10.1	1.0
12500.0	-102.5	386.2	378.4	-21.7	-21.7	8.6	1.1
11000.0	-56.7	386.2	378.4	-7.7	-7.7	7.1	1.2
9500.0	36.7	386.2	378.4	37.7	37.7	6.6	1.2
8000.0	90.7	386.2	378.4	90.7	90.7	6.1	1.2
6500.0	134.7	386.2	378.4	134.7	134.7	5.6	1.2
5000.0	178.7	386.2	378.4	178.7	178.7	5.1	1.2
3500.0	222.7	386.2	378.4	222.7	222.7	4.6	1.2
2000.0	266.7	386.2	378.4	266.7	266.7	4.1	1.2
1000.0	310.7	386.2	378.4	310.7	310.7	3.6	1.2
500.0	354.7	386.2	378.4	354.7	354.7	3.1	1.2
250.0	398.7	386.2	378.4	398.7	398.7	2.6	1.2
100.0	442.7	386.2	378.4	442.7	442.7	2.1	1.2
50.0	486.7	386.2	378.4	486.7	486.7	1.6	1.2
25.0	530.7	386.2	378.4	530.7	530.7	1.1	1.2
10.0	574.7	386.2	378.4	574.7	574.7	0.6	1.2
5.0	618.7	386.2	378.4	618.7	618.7	0.1	1.2
2.5	662.7	386.2	378.4	662.7	662.7	-0.4	1.2
1.0	706.7	386.2	378.4	706.7	706.7	-0.9	1.2
0.5	750.7	386.2	378.4	750.7	750.7	-1.4	1.2
0.25	794.7	386.2	378.4	794.7	794.7	-1.9	1.2
0.125	838.7	386.2	378.4	838.7	838.7	-2.4	1.2
0.0625	882.7	386.2	378.4	882.7	882.7	-2.9	1.2
0.03125	926.7	386.2	378.4	926.7	926.7	-3.4	1.2
0.015625	970.7	386.2	378.4	970.7	970.7	-3.9	1.2
0.0078125	1014.7	386.2	378.4	1014.7	1014.7	-4.4	1.2
0.00390625	1058.7	386.2	378.4	1058.7	1058.7	-4.9	1.2
0.001953125	1102.7	386.2	378.4	1102.7	1102.7	-5.4	1.2
0.0009765625	1146.7	386.2	378.4	1146.7	1146.7	-5.9	1.2
0.00048828125	1190.7	386.2	378.4	1190.7	1190.7	-6.4	1.2
0.000244140625	1234.7	386.2	378.4	1234.7	1234.7	-6.9	1.2
0.0001220703125	1278.7	386.2	378.4	1278.7	1278.7	-7.4	1.2
0.00006103515625	1322.7	386.2	378.4	1322.7	1322.7	-7.9	1.2
0.000030517578125	1366.7	386.2	378.4	1366.7	1366.7	-8.4	1.2
0.0000152587890625	1410.7	386.2	378.4	1410.7	1410.7	-8.9	1.2
0.00000762939453125	1454.7	386.2	378.4	1454.7	1454.7	-9.4	1.2
0.000003814697265625	1498.7	386.2	378.4	1498.7	1498.7	-9.9	1.2
0.0000019073396328125	1542.7	386.2	378.4	1542.7	1542.7	-10.4	1.2
0.00000095366981640625	1586.7	386.2	378.4	1586.7	1586.7	-10.9	1.2
0.000000476834908203125	1630.7	386.2	378.4	1630.7	1630.7	-11.4	1.2
0.0000002384174541015625	1674.7	386.2	378.4	1674.7	1674.7	-11.9	1.2
0.00000012020872705078125	1718.7	386.2	378.4	1718.7	1718.7	-12.4	1.2
0.00000006010436350259375	1762.7	386.2	378.4	1762.7	1762.7	-12.9	1.2
0.00000003005218175129688	1806.7	386.2	378.4	1806.7	1806.7	-13.4	1.2
0.00000001502609087564844	1850.7	386.2	378.4	1850.7	1850.7	-13.9	1.2
0.00000000751304543782422	1894.7	386.2	378.4	1894.7	1894.7	-14.4	1.2
0.00000000375652221891211	1938.7	386.2	378.4	1938.7	1938.7	-14.9	1.2
0.00000000187826110945605	1982.7	386.2	378.4	1982.7	1982.7	-15.4	1.2
0.00000000093913055472802	2026.7	386.2	378.4	2026.7	2026.7	-15.9	1.2
0.00000000046956527764001	2070.7	386.2	378.4	2070.7	2070.7	-16.4	1.2
0.00000000023478263880000	2114.7	386.2	378.4	2114.7	2114.7	-16.9	1.2
0.00000000011739131940000	2158.7	386.2	378.4	2158.7	2158.7	-17.4	1.2
0.00000000005869565970000	2202.7	386.2	378.4	2202.7	2202.7	-17.9	1.2
0.00000000002934782500000	2246.7	386.2	378.4	2246.7	2246.7	-18.4	1.2
0.00000000001467391300000	2290.7	386.2	378.4	2290.7	2290.7	-18.9	1.2
0.00000000000733595000000	2334.7	386.2	378.4	2334.7	2334.7	-19.4	1.2
0.00000000000367297500000	2378.7	386.2	378.4	2378.7	2378.7	-19.9	1.2
0.00000000000183649500000	2422.7	386.2	378.4	2422.7	2422.7	-20.4	1.2
0.00000000000091824750000	2466.7	386.2	378.4	2466.7	2466.7	-20.9	1.2
0.00000000000045912375000	2510.7	386.2	378.4	2510.7	2510.7	-21.4	1.2
0.00000000000023006187500	2554.7	386.2	378.4	2554.7	2554.7	-21.9	1.2
0.00000000000011503093750	2598.7	386.2	378.4	2598.7	2598.7	-22.4	1.2
0.00000000000005751546875	2642.7	386.2	378.4	2642.7	2642.7	-22.9	1.2
0.000000000000028757734375	2686.7	386.2	378.4	2686.7	2686.7	-23.4	1.2
0.0000000000000143788671875	2730.7	386.2	378.4	2730.7	2730.7	-23.9	1.2
0.00000000000000718943359375	2774.7	386.2	378.4	2774.7	2774.7	-24.4	1.2
0.00000000000000359471729375	2818.7	386.2	378.4	2818.7	2818.7	-24.9	1.2
0.000000000000001797258646875	2862.7	386.2	378.4	2862.7	2862.7	-25.4	1.2
0.00000000000000089863932375	2906.7	386.2	378.4	2906.7	2906.7	-25.9	1.2
0.000000000000000449319661875	2950.7	386.2	378.4	2950.7	2950.7	-26.4	1.2
0.0000000000000002246598309375	2994.7	386.2	378.4	2994.7	2994.7	-26.9	1.2
0.00000000000000011232991546875	3038.7	386.2	378.4	3038.7	3038.7	-27.4	1.2
0.000000000000000056164977734375	3082.7	386.2	378.4	3082.7	3082.7	-27.9	1.2
0.0000000000000000280832488671875	3126.7	386.2	378.4	3126.7	3126.7	-28.4	1.2
0.00000000000000001404162443359375	3170.7	386.2	378.4	3170.7	3170.7	-28.9	1.2
0.000000000000000007020812217729375	3214.7	386.2	378.4	3214.7	3214.7	-29.4	1.2
0.00000000000000000351040561089375	3258.7	386.2	378.4	3258.7	3258.7	-29.9	1.2
0.000000000000000001755202805446875	3302.7	386.2	378.4	3302.7	3302.7	-30.4	1.2
0.000000000000000000877601402729375	3346.7	386.2	378.4	3346.7	3346.7	-30.9	1.2
0.0000000000000000004388006013671875	3390.7	386.2	378.4	3390.7	3390.7	-31.4	1.2
0.000000000000000000219400300546875	3434.7	386.2	378.4	3434.7	3434.7	-31.9	1.2
0.0000000000000000001097001502734375	3478.7	386.2	378.4	3478.7	3478.7	-32.4	1.2
0.00000000000000000005485005013671875	3522.7	386.2	378.4	3522.7	3522.7	-32.9	1.2
0.00000000000000000002742502506846875	3566.7	386.2	378.4	3566.7	3566.7	-33.4	1.2
0.000000000000000000013712512534359375	3610.7	386.2	378.4	3610.7	3610.7	-33.9	1.2
0.0000000000000000000068562562717729375	3654.7	386.2	378.4	3654.7	3654.7	-34.4	1.2
0.00000000000000000000342812813589375	3698.7	386.2	378.4	3698.7	3698.7	-34.9	1.2
0.0000000000000000000017140640679375	3742.7	386.2	378.4	3742.7	3742.7	-35.4	1.2
0.0000000000000000000008570320339375	3786.7	386.2	378.4	3786.7	3786.7	-35.9	1.2
0.0000000000000000000004285160169375	3830.7	386.2	378.4	3830.7	3830.7	-36.4	1.2
0.00000000000000000000021450800349375	3874.7	386.2	378.4	3874.7	3874.7	-36.9	1.2
0.000000000000000000000107254001746875	3918.7	386.2	378.4	3918.7	3918.7	-37.4	1.2
0.00000000000000000000005362700007729375	3962.7	386.2	378.4	3962.7	3962.7	-37.9	1.2
0.00000000000000000000002681350003846875	4006.7	386.2	378.4	4006.7	4006.7	-38.4	1.2
0.0000000000000000000000134067500192375	4050.7	386.2	378.4	4050.7	4050.7	-38.9	1.2
0.00000000000000000000000670337500961875	4094.7	386.2	378.4	4094.7	4094.7	-39.4	1.2
0.00000000000000000000000335168750480375	4138.7	386.2	378.4	4138.7	4138.7	-39.9	1.2
0.000000000000000000000001675843750240375	4182.7	386.2	378.4	4182.7	4182.7	-40.4	1.2
0.0000000000000000000000008391350001960375	4226.7	386.2	378.4	4226.7	4226.7	-40.9	1.2
0.0000000000000000000000004195625000980375	4270.7	386.2	378.4	4270.7	4270.7	-41.4	1.2
0.0000000000000000000000002097300004920375	4314.7	386.2	378.4	4314.7	4314.7	-41.9	1.2
0.00000000000000000000000010486875002440375	4358.7	386.2	378.4	4358.7	4358.7	-42.4	1.2
0.00000000000000000000000005243437501220375	4402.7	386.2	378.4	4402.7	4402.7	-42.9	1.2
0.00000000000000000000000002621712505640375	4446.7	386.2	378.4	4446.7	4446.7	-43.4	1.2
0.000000000000000000000000013108562502880375	4490.7	386.2	378.4	4490.7	4490.7	-43.9	1.2
0.000000000000000000000000006554250014560375	4534.7	386.2	378.4	4534.7	4534.7	-44.4	1.2
0.0000000000000000000000000032771250071040375	4578.7	386.2	378.4	4578.7	4578.7	-44.9	1.2
0.0000000000000000000000000016385625035520375	4622.7	386.2	378.4	4622.7	4622.7	-45.4	1.2
0.00000000000000000000000000081928125017680375	4666.7	386.2	378.4	4666.7	4666.7	-45.9	1.2
0.00000000000000000000000000040964375008840375	4710.7	386.2	378.4	4710.7	4710.7	-46.4	1.2
0.00000000000000000000000000020482000044000375	4754.7	386.2	378.4	4754.7	4754.7	-46.9	1.2
0.00000000000000000000000000010241000020800375	4798.7	386.2	378.4	4798.7	4798.7	-47.4	1.2
0.000000000000000000000000000051200000104000375	4842.7	386.2	378.4	4842.7	4842.7	-47.9	1.2
0.000000000000000000000000000025600000052000375	4886.7	386.2	378.4	4886.7	4886.7	-48.4	1.2
0.000000000000000000000000000012800000026400375	4930.7	386.2	378.4	4930.7	4930.7	-4	

AT LEAST ONE ASSUMED RELATIVE HUMIDITY VALUE WAS USED IN THE INTERPOLATION.

STATION ALTITUDE 403000 FEET MDT
2 SEP. 82
ASCENSION NO. 127

UPPER AIR DATA
2450030127
JALLEN

TABLE 12 Cont'd

GEODETIC COORDINATES
32°16'71.2 LAT deg
106°49'51.1 LONG deg

GEOMETRIC ALTITUDE MSL FEET	PRESSURE MILLIBARS	TEMPERATURE AIR DEGREES	DEGREEPOINT	REL.HUM. PERCENT	BEDENSITY GRA/CUBIC METER	SOUND KNOTS	WIND DATA DIRECTION DEGREES(180) KNOTS	INDEX OF REFRACTION
44000.0	172.2	-61.4		283.5	566.9	325.1	26.8	1.000063
44500.0	168.2	-62.2		277.7	565.9	323.9	27.3	1.000062
45000.0	164.1	-62.3		271.1	565.7	324.5	29.4	1.000060
45500.0	160.1	-61.2		263.2	567.2	325.4	31.6	1.000059
46000.0	156.3	-60.9		256.5	567.6	327.1	33.2	1.000057
46500.0	152.5	-61.9		251.4	566.3	329.1	36.0	1.000056
47000.0	148.8	-62.6		246.4	565.1	330.6	32.7	1.000055
47500.0	145.2	-62.5		241.2	564.0	331.8	28.9	1.000054
48000.0	141.6	-64.3		236.2	563.0	331.3	25.8	1.000053
48500.0	138.1	-65.1		231.3	561.9	324.8	26.7	1.000052
49000.0	134.8	-65.7		226.3	561.2	318.2	25.8	1.000051
49500.0	131.4	-65.8		220.9	560.9	315.0	22.2	1.000050
50000.0	128.2	-66.0		215.6	560.7	312.2	20.7	1.000049
50500.0	125.0	-66.2		210.5	560.4	319.5	18.9	1.000048
51000.0	121.9	-66.4		205.3	560.2	328.1	17.5	1.000047
51500.0	118.9	-67.0		201.0	559.3	331.8	16.6	1.000045
52000.0	116.0	-67.7		196.6	558.4	334.9	19.9	1.000044
52500.0	113.1	-68.2		192.2	557.7	337.5	20.5	1.000043
53000.0	110.2	-68.8		187.9	557.0	340.0	20.1	1.000042
53500.0	107.5	-69.3		183.7	556.3	344.1	19.6	1.000041
54000.0	104.8	-69.8		179.5	555.5	350.9	19.7	1.000040
54500.0	102.2	-69.7		174.9	555.7	357.6	19.8	1.000039
55000.0	99.6	-69.6		170.4	555.9	355.7	19.8	1.000038
55500.0	97.1	-69.2		165.9	556.3	369.3	7.8	1.000037
56000.0	94.7	-68.9		161.5	556.7	10.4	17.6	1.000036
56500.0	92.3	-68.6		157.3	557.1	13.0	15.0	1.000035
57000.0	90.0	-68.3		153.1	557.6	14.7	12.5	1.000034
57500.0	87.8	-68.0		149.0	558.0	16.4	9.7	1.000033
58000.0	85.6	-67.7		145.1	558.4	16.7	6.5	1.000032
58500.0	83.5	-67.2		141.2	559.1	12.0	5.4	1.000031
59000.0	81.4	-66.7		137.6	559.8	15.9	5.4	1.000030
59500.0	79.4	-66.1		133.6	560.5	12.6	5.4	1.000029
60000.0	77.5	-65.6		130.5	561.2	12.5	5.3	1.000028
60500.0	75.6	-65.1		126.5	561.9	12.0	5.2	1.000027
61000.0	73.7	-64.6		123.1	562.6	11.9	5.1	1.000026
61500.0	71.9	-64.1		119.8	563.3	11.6	5.0	1.000025
62000.0	70.1	-63.5		116.3	564.0			

STATION ALTITUDE 4031.06 FEET MSL
2 SEP. 82 0630 HRS MDT
ASCENSION NO. 127

TABLE 13
AERATOLOGY LEVELS
JARLEN
2450030127

GEODETIC COORDINATES
33°16'12" LAT 66°
106°49'11" LON 86°

PRESSURE GEOPOTENTIAL MILLIBARS	FEET	TEMPERATURE DEGREES CENTIGRADE	AIR / DEWPOINT PERCENT	REL.HUM. PERCENT	WIND DATA DIRECTION DEGREES (TN) SPEED KNOTS
5054.0	25.0	8.1	30.	19.8	3.5
500.0	6793.0	22.8	60.7	120.9	1.1
750.0	8626.0	19.1	60.0	205.5	4.5
700.0	10536.0	16.4	64.0	35.6	2.3
650.0	12587.0	9.1	70.0	62.9	10.2
600.0	14749.0	-3.3	56.0	61.6	13.2
550.0	17045.0	-1.7	67.5	70.8	10.5
500.0	19509.0	-7.4	68.6	68.1	7.0
450.0	22179.0	-10.8	76.1	61.5	9.2
400.0	25111.0	-17.6	72.4	53.0	19.3
350.0	28336.0	-25.6	75.0	70.7	16.7
300.0	31947.0	-34.1	74.2	35.0	23.5
250.0	37606.0	-44.2	75.0	43.5	24.1
200.0	40829.0	-56.0	76.0	32.0	26.0
175.0	43579.0	-60.0	76.0	330.3	34.1
150.0	46712.0	-62.5	76.2	319.2	19.0
125.0	50361.0	-66.2	76.6	1.6	19.8
100.0	54753.0	-69.3	76.3	37.2	4.9
80.0	59149.0	-70.0	76.5		
70.0	61822.0	-63.5			

** AT LEAST ONE ASSURED RELATIVE HUMIDITY VALUE WAS USED IN THE INTERPOLATION.

STATION ALTITUDE 4126.59 FEET MSL
2 SEP. 62
ASCENSION NO. 221

SIGNIFICANT LEVEL DATA
2'50010C21
MOLLOWAN
TABLE 14

GEODETIC COORDINATES
32.00065 LAT. DEG.
106.09965 LONG. DEG.

PRESSURE (GEOMETRIC)	ALTITUDE MILLIBARS MSL	TEMPERATURE AIR DEVIATION DEGREES CELSIUS	WELL HUM. PERCENT
877.1	4120.6	21.0	58.0
865.0	4525.2	25.3	51.0
853.0	5031.4	25.8	49.0
773.7	7734.3	21.3	51.0
700.6	10554.9	14.7	56.0
662.3	12004.9	10.6	59.0
597.3	14676.2	2.6	61.0
582.1	15562.9	1.0	70.0
546.6	16303.1	-0.9	69.0
550.1	16625.3	-1.7	96.0
530.7	17085.2	-4.3	64.0
523.3	18491.2	-6.0	76.0
505.6	19234.6	-6.3	85.0
500.0	19524.9	-6.7	55.0
487.5	20173.4	-6.4	29.0
453.1	22033.4	-16.7	33.0
439.9	22780.5	-11.7	34.0
406.6	25150.6	-17.0	49.0
372.3	26044.3	-21.9	29.0
364.6	27109.4	-23.4	36.0
340.3	28437.7	-25.0	41.0
332.7	29535.7	-27.5	38.0
306.0	32115.0	-33.7	34.0
266.7	34599.0	-39.0	37.0
250.0	36140.7	-46.3	
200.0	40044.7	-55.0	
193.0	41664.7	-57.0	
188.0	42148.5	-57.0	
160.8	45451.2	-43.0	
151.5	46397.7	-61.4	
150.0	46468.1	-62.5	
149.6	48178.2	-64.0	
126.8	50257.4	-65.0	
113.6	52444.8	-69.4	
104.0	54101.5	-69.0	
100.0	54952.7	-69.6	
94.1	55739.6	-67.0	
71.6	59769.2	-63.2	
75.4	61613.2	-62.1	
70.0	62126.0	-63.2	

STATION ALTITUDE 9126.5 FEET ASL
2 SEP. 52 0800 HRS PDT
ASSEMBLY NO. 221

SIGNIFICANT LEVEL DATA
2450010021
WHITE Mtn Cont'd

SEODETIL CLOUDS WATERS
32.000005 LAT DEG
106.000005 LONG DEG

PRESSURE GEOMETRIC MILLIBARS	ALTIMETER INCHES MSL FET	TEMPERATURE AIR DEPTH IN DEGREES CENTIGRADE	WIND DIRECTION HELI. MAG. PERCENT
63.4	64139.0	-62.6	
50.0	69069.3	-75.3	
46.6	70466.7	-74.6	
42.1	71734.2	-51.5	
34.6	77316.7	-51.5	
30.0	80022.9	-60.4	
26.6	84166.2	-60.3	
21.0	88079.4	-60.4	
17.6	91460.5	-55.1	
13.0	95444.0	-53.1	
11.6	1000613.2	-41.7	

Station Alvinia 42°26' S 72°51' W

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Table 11. Cumulants

STATION ALTITUDE "1660' HES' HGT'
2 SEP. 02 1960 HES' HGT'
ASCENSUS NO. 221

UPPER AIR L.14
2450010224

ELEVATIONAL COORDINATES
32.0000 LAT 116
106.04965 LON USE

TABLE 15 Cont'd

GEOMETRIC ALTITUDE ASL FEET	PRESSURE IN MILLIBARS	TELEGRAPHIC IN MILLIBARS DEVIANCE CENTIGRADS	REL.HUM. PERCENT	DENSITY GM/CMIC METER	SPEED OF WIND KNOTS	DIR ECTN DEGREES (NW)	INDEX OF REFRACTION
24000.0	410.9	-14.7	-26.1	38.4	626.5	25.2	1.000139
24500.0	410.6	-16.0	-25.9	38.4	624.9	25.1	1.000128
25000.0	402.9	-17.2	-27.6	39.6	627.5	20.1	1.000120
25500.0	394.3	-18.5	-29.2	41.8	625.4	19.8	1.000124
26000.0	386.7	-19.7	-28.7	44.9	530.7	19.9	1.000122
26500.0	378.5	-7.0.9	-29.4	46.9	522.5	110.9	1.000120
27000.0	370.6	-12.1	-30.4	46.9	514.4	617.4	1.000117
27500.0	363.2	-73.4	-33.6	38.3	500.5	615.0	1.000115
28000.0	355.7	-24.6	-34.3	39.7	490.4	614.9	1.000113
28500.0	348.4	-25.7	-35.1	40.8	490.3	612.9	1.000111
29000.0	341.1	-26.5	-36.1	39.5	481.7	611.9	1.000109
29500.0	334.0	-27.3	-37.2	38.2	473.3	610.9	1.000107
30000.0	327.0	-28.5	-38.3	38.1	465.6	609.4	1.000105
30500.0	320.1	-29.8	-39.5	38.0	455.1	607.0	1.000103
31000.0	313.3	-31.1	-40.7	38.1	450.8	606.2	1.000102
31500.0	306.7	-32.4	-41.0	38.0	445.7	604.6	1.000100
32000.0	300.2	-33.7	-42.0	38.1	435.6	603.9	1.000098
32500.0	293.7	-34.8	-43.1	37.8	429.6	603.1	1.000096
33000.0	287.3	-35.9	-45.2	37.6	421.9	600.1	1.000095
33500.0	281.1	-37.1	-46.2	37.4	414.7	598.0	1.000093
34000.0	275.0	-38.2	-47.3	37.3	407.7	597.2	1.000091
34500.0	269.0	-39.3	-48.4	37.1	400.0	595.7	1.000090
35000.0	263.1	-40.7	-51.7	29.8	394.4	593.9	1.000089
35500.0	257.3	-42.3	-57.7	16.44	394.2	591.9	1.000087
36000.0	251.6	-43.9	-60.1	3.64	382.2	589.9	1.000085
36500.0	246.0	-45.9	-60.4		375.7	586.2	1.000084
37000.0	240.2	-46.4	-60.7		369.0	583.7	1.000082
37500.0	234.7	-7.6	-62.3		362.4	580.7	1.000081
38000.0	229.3	-10.8	-63.9		355.0	578.0	1.000079
38500.0	224.1	-19.9	-65.9		349.7	576.0	1.000078
39000.0	218.9	-1.1	-66.4		343.5	574.5	1.000077
39500.0	213.9	-52.3	-67.1		337.4	572.9	1.000075
40000.0	209.0	-13.5	-68.8		331.5	571.5	1.000074
40500.0	204.2	-47	-69.5		325.7	570.0	1.000073
41000.0	199.5	-5.9	-70.1		319.9	574.2	1.000071
41500.0	194.8	-0.8	-70.7		313.7	573.0	1.000070
42000.0	190.1	-7.1	-71.3		309.0	572.0	1.000069
42500.0	185.6	-17.7	-72.0		303.1	571.0	1.000067
43000.0	181.1	-8.6	-72.6		296.2	570.0	1.000066
43500.0	176.8	-9.5	-73.2		289.3	569.4	1.000064

** AT LEAST ONE ASSUMED INTERPOLATION VALUE WAS USED IN THE INTERPOLATION.

STATION ALTITUDE = 12665 FEET MSL
2 SEP. 12
ASCENSION NO. -21

UPPER AIR DATA
2450010271
HOLLOWAY
TABLE 15 Cont'd

GEODETIC COORDINATES
32° 00' 06", LAT
116° 09' 06", LONG

GEODETIC ALTITUDE METERS	PRESSURE MILLIBARS	TEMPERATURE / IR. DEGREE CENTIGRADE	WIND DIRECTION OF WINDS (10) FROM NORTH	WIND SPEED KNOTS	WIND DIA. IN FEET	INCHES OF REFRACTION
44000.0	172.6	-6.0+4	262.0	19.0	1.0000003	
44500.0	168.4	-7.1+3	276.9	20.9	1.000002	
45000.0	164.4	-7.2+2	271.4	22.6	1.000000	
45500.0	160.0	-7.2+9	265.0	23.1	1.0000059	
46000.0	155.5	-7.2+1	258.5	23.5	1.0000034	
46500.0	152.0	-7.1+6	251.0	23.7	1.000002	
47000.0	149.0	-7.2+7	246.7	24.0	1.000002	
47500.0	145.0	-7.3+5	241.6	24.8	1.000004	
48000.0	141.0	-7.4+3	236.6	25.5	1.000003	
48500.0	138.0	-7.4+7	231.4	26.4	1.000001	
49000.0	135.0	-7.4+6	226.0	27.3	1.000000	
49500.0	131.7	-7.4+9	220.2	27.1	1.0000047	
50000.0	128.4	-7.5+0	214.9	26.9	1.0000046	
50500.0	125.0	-7.5+5	210.1	25.7	1.0000047	
51000.0	122.2	-7.6+5	205.9	24.3	1.0000040	
51500.0	119.1	-7.7+5	201.0	23.1	1.0000045	
52000.0	116.2	-7.8+5	197.3	21.7	1.0000044	
52500.0	113.0	-7.9+4	193.7	20.7	1.0000045	
53000.0	110.1	-7.9+5	189.9	20.4	1.0000042	
53500.0	107.0	-7.9+6	184.3	20.7	1.0000041	
54000.0	105.0	-7.9+6	179.6	21.5	1.0000040	
54500.0	102.3	-7.9+7	175.2	21.7	1.0000039	
55000.0	99.5	-7.9+5	170.0	20.7	1.0000036	
55500.0	97.3	-7.8+1	165.4	20.6	1.0000037	
56000.0	94.9	-7.7+2	160.4	21.0	1.0000030	
56500.0	92.5	-7.6+8	155.2	20.9	1.0000033	
57000.0	90.2	-7.6+4	150.2	20.6	1.0000034	
57500.0	88.0	-7.6+0	145.1	20.3	1.0000035	
58000.0	85.9	-7.5+6	140.2	20.4	1.0000032	
58500.0	83.7	-7.5+2	136.3	19.4	1.0000031	
59000.0	81.7	-7.4+8	132.3	17.7	1.0000030	
59500.0	79.7	-7.4+4	128.0	17.5	1.0000030	
60000.0	77.7	-7.3+6	123.2	16.2	1.0000029	
60500.0	75.8	-7.2+4	119.3	15.1	1.0000028	
61000.0	74.0	-7.2+4	115.0	14.1	1.0000025	
61500.0	72.2	-7.2+7	111.5	13.1	1.0000025	
62000.0	70.4	-7.3+1	107.6	12.1	1.0000024	
62500.0	68.7	-7.3+1	104.0	11.2	1.0000024	
63000.0	67.1	-7.3+0	101.4	9.9	1.0000024	
63500.0	65.4	-7.2+9	98.9	9.1	1.0000024	

STATION ALTITUDE 4126.59 FEET
2 SEP. 12 0800 HRS NDT
ASSEMBLAGE NO. 221

UPPER AIR DATA
2450010221
HOLLOWAY
TABLE 15 Cont'd

GEODETIC COORDINATES
32°08'6.5" LAT DEG
116°04'9.5" LONG DEG

GEOMETRIC ALTITUDE IN FEET	PRESSURE IN MILLIBARS	TEMPERATURE IN DEGREES CENTIGRADE	REL. HUM. PERCENT	DENSITY GRAMS/CU. CM.	SIEVE OF SUSPENDED PARTICLES MICRONS	WIND DATA DIRECTION DEGREES (TRUE)	WIND SPEED KNOTS	INDEX OF REFRACTION
64500.0	102.8	-42.2	105.7	365.9	0.9	100.2	12.9	1.000024
65000.0	102.4	-41.3	102.9	365.9	0.9	101.2	12.5	1.000023
65500.0	100.8	-40.5	97.0	367.0	0.9	11.9	11.9	1.000022
66000.0	99.3	-39.6	97.3	368.2	0.9	11.0	11.0	1.000021
66500.0	98.0	-38.7	94.0	369.3	0.9	10.4	9.7	1.000020
67000.0	96.6	-37.9	91.9	370.5	0.9	102.5	8.9	1.000019
67500.0	95.2	-37.0	89.4	371.0	0.9	104.6	8.6	1.000019
68000.0	93.9	-36.1	86.9	372.0	0.9	105.7	8.8	1.000019
68500.0	92.6	-35.3	84.5	373.9	0.9	111.0	6.4	1.000018
69000.0	91.4	-34.5	82.2	375.0	0.9	117.5	6.0	1.000018
69500.0	90.2	-33.6	79.9	376.2	0.9	118.6	7.7	1.000017
70000.0	89.0	-32.5	76.0	376.1	0.9	119.0	7.3	1.000017
70500.0	87.9	-31.6	73.0	376.9	0.9	110.3	6.9	1.000017
71000.0	86.7	-30.7	74.3	375.6	0.9	109.0	6.5	1.000016
71500.0	85.6	-29.8	76.4	377.0	0.9	9.9	7.0	1.000016
72000.0	84.6	-28.1	70.3	379.2	0.9	97.0	9.2	1.000015
72500.0	82.6	-26.5	66.5	380.0	0.9	31.0	12.1	1.000015
73000.0	81.6	-25.1	68.9	380.0	0.9	31.0	14.6	1.000015
73500.0	80.6	-24.5	65.5	380.0	0.9	31.0	16.3	1.000014
74000.0	79.7	-23.5	60.4	380.0	0.9	92.0	18.2	1.000014
74500.0	78.8	-21.5	60.9	380.0	0.9	96.0	16.0	1.000014
75000.0	77.9	-21.5	59.5	380.0	0.9	71.2	17.6	1.000013
75500.0	77.0	-21.5	59.2	380.0	0.9	75.9	17.4	1.000013
76000.0	76.2	-21.5	59.0	380.0	0.9	76.0	17.7	1.000013
76500.0	75.3	-21.5	59.5	380.0	0.9	76.1	16.1	1.000012
77000.0	74.5	-21.5	54.2	380.0	0.9	77.2	18.5	1.000012
77500.0	73.7	-21.3	54.9	380.0	0.9	52.2	16.9	1.000011
78000.0	72.9	-20.7	51.0	380.0	0.9	68.0	19.4	1.000011
78500.0	72.2	-20.1	50.3	380.0	0.9	65.1	19.7	1.000011
79000.0	71.5	-19.6	49.0	380.0	0.9	65.1	19.4	1.000011
79500.0	70.7	-19.0	47.0	380.0	0.9	60.1	19.3	1.000011
80000.0	70.0	-18.4	46.0	380.0	0.9	72.0	20.2	1.000010
80500.0	69.3	-18.5	45.0	380.0	0.9	67.4	22.0	1.000010
81000.0	68.6	-18.6	44.0	380.0	0.9	65.1	24.0	1.000010
81500.0	67.9	-18.6	43.0	380.0	0.9	64.0	25.6	1.000010
82000.0	67.2	-18.6	42.0	380.0	0.9	62.0	27.0	1.000010
82500.0	66.6	-18.6	41.0	380.0	0.9	69.0	28.5	1.000010
83000.0	66.0	-18.6	40.7	380.0	0.9	71.0	28.7	1.000010

STATION ALTITUDE 9126.9 FT.
2 SEP. 12
ASCENSUS 1.0. 221

UPPER AIR DATA
2150010Z24
MOLLOWAY
TABLE 15 Cont'd

GEODETIC COORDINATES
32.0061 LAT REG
116.0996 LONG REG

GEOMETRIC ALTITUDE HSL FEET	PRESSURE MILLIBARS	TEMPERATURE IN DEGREES CELSIUS	REL.HUM. PERCENT	REFL.HUM. CM/CURIE	SIGHTS OF DISTANCE METERS	WIND DATA DIR. CTR. ELEV. (IN)	SPEED MTS (IN)	WIND ANGLES (IN)	LINEAR OR REFRACTION
24000.0	250.0	-19.3	30.4	36.2	75.4	26.8	1.000000	1.000000	
24500.0	249.9	-18.9	37.9	56.5	76.4	29.0	1.000000	1.000000	
25000.0	249.9	-18.4	37.0	39.4	61.3	29.3	1.000000	1.000000	
25500.0	250.3	-17.9	76.1	50.4	64.1	29.6	1.000000	1.000000	
26000.0	250.3	-17.4	35.2	51.5	65.5	30.2	1.000000	1.000000	
26500.0	250.3	-16.9	34.3	34.5	56.5	30.7	1.000000	1.000000	
27000.0	251.0	-16.4	35.3	36.5	57.5	31.5	1.000000	1.000000	
27500.0	251.3	-15.8	32.6	30.7	67.9	30.9	1.000000	1.000000	
28000.0	251.0	-15.3	31.0	30.9	68.6	30.1	1.000000	1.000000	
28500.0	250.3	-14.8	31.0	30.6	68.5	29.5	1.000000	1.000000	
29000.0	249.9	-14.4	30.3	30.9	68.7	28.4	1.000000	1.000000	
29500.0	249.6	-14.6	29.6	30.4	69.0	27.3	1.000000	1.000000	
30000.0	249.7	-14.7	29.0	30.0	69.0	26.2	1.000000	1.000000	
30500.0	196.6	-14.8	28.4	30.7	69.0	25.5	1.000000	1.000000	
31000.0	196.2	-15.0	27.7	56.5	91.2	25.4	1.000000	1.000000	
31500.0	196.8	-15.1	27.1	56.5	92.6	25.3	1.000000	1.000000	
32000.0	197.4	-14.9	26.5	56.5	93.3	25.2	1.000000	1.000000	
32500.0	197.0	-14.8	25.9	56.7	93.6	24.9	1.000000	1.000000	
33000.0	196.6	-14.7	25.3	56.7	93.6	24.7	1.000000	1.000000	
33500.0	196.2	-14.5	24.7	58.9	94.0	24.6	1.000000	1.000000	
34000.0	196.9	-14.4	24.0	58.9	94.4	25.6	1.000000	1.000000	
34500.0	196.5	-14.2	23.6	58.9	94.1	26.6	1.000000	1.000000	
35000.0	196.2	-14.1	23.1	58.6	94.6	27.6	1.000000	1.000000	
35500.0	196.0	-14.0	22.6	58.9	95.0	28.1	1.000000	1.000000	
36000.0	195.9	-13.9	22.0	59.0	95.3	28.1	1.000000	1.000000	
36500.0	195.6	-13.7	21.5	59.0	95.4	28.1	1.000000	1.000000	
37000.0	195.9	-13.5	21.0	59.0	95.4	28.4	1.000000	1.000000	
37500.0	195.6	-13.4	20.5	59.0	95.7	28.6	1.000000	1.000000	
38000.0	195.3	-13.2	20.0	59.0	95.7	28.6	1.000000	1.000000	
38500.0	195.0	-13.1	19.5	59.0	95.7	28.6	1.000000	1.000000	
39000.0	194.7	-12.7	19.0	59.0	95.7	28.6	1.000000	1.000000	
39500.0	194.9	-12.4	18.7	59.0	95.7	28.6	1.000000	1.000000	
40000.0	194.5	-12.1	18.2	59.0	95.7	28.6	1.000000	1.000000	
40500.0	194.2	-11.9	17.7	59.0	95.7	28.6	1.000000	1.000000	
41000.0	194.5	-11.6	17.2	59.0	95.7	28.6	1.000000	1.000000	
41500.0	194.2	-11.4	16.7	59.0	95.7	28.6	1.000000	1.000000	
42000.0	194.5	-11.2	16.2	59.0	95.7	28.6	1.000000	1.000000	
42500.0	194.2	-11.0	15.7	59.0	95.7	28.6	1.000000	1.000000	
43000.0	194.5	-10.8	15.2	59.0	95.7	28.6	1.000000	1.000000	
43500.0	194.2	-10.6	14.7	59.0	95.7	28.6	1.000000	1.000000	
44000.0	194.5	-10.4	14.2	59.0	95.7	28.6	1.000000	1.000000	
44500.0	194.2	-10.2	13.7	59.0	95.7	28.6	1.000000	1.000000	
45000.0	194.5	-10.0	13.2	59.0	95.7	28.6	1.000000	1.000000	
45500.0	194.2	-9.8	12.7	59.0	95.7	28.6	1.000000	1.000000	
46000.0	194.5	-9.6	12.2	59.0	95.7	28.6	1.000000	1.000000	
46500.0	194.2	-9.4	11.7	59.0	95.7	28.6	1.000000	1.000000	
47000.0	194.5	-9.2	11.2	59.0	95.7	28.6	1.000000	1.000000	
47500.0	194.2	-9.0	10.7	59.0	95.7	28.6	1.000000	1.000000	
48000.0	194.5	-8.8	10.2	59.0	95.7	28.6	1.000000	1.000000	
48500.0	194.2	-8.6	9.7	59.0	95.7	28.6	1.000000	1.000000	
49000.0	194.5	-8.4	9.2	59.0	95.7	28.6	1.000000	1.000000	
49500.0	194.2	-8.2	8.7	59.0	95.7	28.6	1.000000	1.000000	
50000.0	194.5	-8.0	8.2	59.0	95.7	28.6	1.000000	1.000000	

STATION ALTITUDE 4126.9 FEET
2 SEP. 62 0800 HRS MDT
ASST. SIGN NO. 221

VALIDATORY LEVELS
2450010221
HOLLOWAY
TABLE 16

STATION COORDINATES
32° 09' 56" LAT FEB
106° 09' 56" LONG DTG

PRESSURE GEOPOTENTIAL MILLIBARS	TEMPERATURE DEGREES CENTIGRADE	REL.HUM. PERCENT	WIND DIA. DEGREES (TRUE)	WIND SPEED KILOTS
FEET	AIR OF SOIL	REL.HUM.	UN DIRECTION WINDS (TRUE)	
5028.0	25.8	14.0	127.0	1.0
6773.0	22.0	12.0	150.0	2.4
8611.0	19.2	9.5	175.9	2.8
10545.0	14.7	6.0	52.3	3.5
12585.0	9.1	2.5	81.0	12.4
14761.0	2.9	-1.1	60.7	14.5
17113.0	-2.6	-3.7	50.4	13.7
19478.0	-6.7	-18.6	49.4	10.9
22174.0	-10.9	-23.9	37.0	12.0
25109.0	-17.6	-27.9	40.2	16.3
28338.0	-25.6	-34.9	41.1	351.3
31192.0	-31.7	-43.0	339.4	14.7
36662.0	-44.3	-50.0	337.7	23.2
40846.0	-55.4	-55.4	326.4	23.5
43610.0	-59.4	-59.4	337.4	17.4
46782.0	-62.5	-62.5	334.0	23.9
50379.0	-65.6	-65.6	334.3	23.6
54763.0	-69.6	-69.6	147.2	19.1
59217.0	-64.5	-64.5	33.3	3.4
641913.0	-63.2	-63.2	116.2	7.7
69633.0	-60.8	-60.8	92.3	14.2
75010.0	-54.3	-54.3	110.0	9.0
80050.0	-35.4	-51.5	611.3	17.4
85600.0	-9.0	-48.4	74.0	20.1
93611.0	-49.3	-49.3	75.2	20.6
200.0	88462.0	-94.0	80.7	20.7
150.0	93779.0	-94.0	63.4	20.1

** AT LEAST ONE ASSURED RELATIVE HUMIDITY VALUE WAS USED IN THE INTERPOLATION.

STATION ALTITUDE 4053 FEET
Z SEP. 82
ASCENSION NO. 90

SIGNIFICANT LEVEL DATA
245C1P00097
TABLE 17

GEOSTATIC COORDINATES
32°40'17.5" LAT DEG
106°31'23.7" LONG DEG

PRESSURE GEOMETRIC ALTITUDE MILLIBARS PSL FEET	TEMPERATURE AIR DEGREES CENTIGRADE	REL.HUM. PERCENT	
		DEPTHPNT	DEPTHS
931.9	4051.6	26.1	13.6
874.3	4295.1	25.6	8.6
950.0	5115.6	25.3	10.6
783.2	7464.8	21.9	7.7
700.0	10629.9	16.9	2.4
658.5	12733.7	8.6	1.1
511.0	14342.3	4.3	1.0
594.0	15095.4	2.2	0.9
576.3	15897.0	1.4	0.2
567.6	16296.3	1.1	0.5
558.7	16713.9	1.4	0.4
548.3	17194.9	1.0	0.9
541.4	17534.0	-3.1	-6.7
537.2	17736.7	-2.9	-7.5
533.1	17935.9	-3.7	-8.5
516.2	18773.0	-4.0	-15.3
500.0	19597.4	-6.0	-14.7
483.0	20450.7	-8.1	-17.1
465.5	21316.1	-11.2	-29.1
400.0	25241.9	-16.5	-32.3
374.7	28657.6	-25.1	-36.2
350.0	32120.3	-33.4	-44.6
269.8	34544.0	-39.4	-49.6
250.0	36248.6	-45.4	-56.8
200.0	41073.3	-56.8	-68.8
147.4	45284.8	-61.9	-73.8
139.8	45850.3	-59.7	-62.1
150.0	47019.0	-62.1	-63.8
129.6	49999.2	-66.5	-75.4
125.3	51611.3	-65.7	-73.1
114.3	52471.1	-68.8	-79.8
130.0	55109.4	-69.0	-79.1
70.0	62239.5	-63.8	-70.2
59.0	69161.6	-63.1	-72.2
60.6	73604.0	-60.2	-68.2
35.4	76569.0	-30.0	-37.0
30.0	80176.3	-32.0	-39.0

STATION ALTITUDE 40560 FEET MSL
2 SEP. 82

ASCENSION NO. 30

TABLE 17 Cont'd
SIGNIFICANT LEVEL DATA
250 LEVELS

GEOGRAPHIC COORDINATES
32°40'17.5" LAT DEG
106°21'23.2" LONG DEG

PRESSURE GEOMETRIC	TEMPERATURE	REL.HUM.	PERCENT
MILLIBARS MSL FEET	ALTITUDE AIR DEMPOINT	DEGREES CENTIGRADE	
200.0	89002.7	-46.3	
111.4	101522.6	-40.9	
121.5	103387.9	-38.2	
100.0	106356.2	-35.2	
77.0	112750.1	-35.4	
5.0	120542.5	-35.5	

STATION ALTITUDE 4951.77 FEET MSL
E SEP. 82 0900 HRS MDT
ASCENSION NO. 90

UPPER AIR DATA
245180060
1 SEP. 82
TABLE 17 Cont'd

GEODETIC COORDINATES
32°40'17" LAT DEG
106°31'23" LONG DEG

GEOMETRIC ALTITUDE PSL FEET	PRESSURE MILLIBARS	TEMPERATURE AIR DEPOINT DEGREES CENTIGRADE	REL.HUM. PERCENT	DENSITY GR/CUBIC METER	SPEED OF SOUND KNOTS	DIRECTION DEGREES(TWD)	SPEED KNOTS	WIND DATA	INDEX OF REFRACTION
4051.4	881.9	13.6	100.8	676.0	11.0	42.2	1.000293		
4500.0	868.3	35.2	100.7	675.0	42.2	1.000274			
5000.0	853.4	56.1	99.5	676.9	77.5	1.000273			
5500.0	838.7	44.7	99.3	674.3	97.8	1.000270			
6000.0	824.2	24.0	9.4	661.0	107.2	1.000265			
6500.0	810.0	23.3	8.8	646.8	107.2	1.000260			
7000.0	796.0	22.6	8.2	632.6	107.5	1.000255			
7500.0	782.1	21.3	7.6	619.1	107.8	1.000250			
8000.0	768.5	20.7	6.8	605.5	108.5	1.000246			
8500.0	755.0	19.6	6.0	594.1	108.1	1.000241			
9000.0	741.7	18.5	5.2	584.1	108.4	1.000236			
9500.0	728.6	17.4	4.3	571.9	108.6	1.000231			
10000.0	715.8	16.3	3.5	560.4	108.7	1.000227			
10500.0	703.2	15.2	2.7	549.3	108.2	1.000222			
11000.0	690.7	13.9	2.3	535.2	108.1	1.000219			
11500.0	678.2	12.3	1.1	524.4	108.5	1.000217			
12000.0	666.0	10.6	1.7	513.6	108.8	1.000214			
12500.0	654.0	9.3	1.3	502.2	109.1	1.000211			
13000.0	642.1	7.8	0.9	491.0	109.2	1.000206			
13500.0	630.4	6.4	0.7	480.6	109.5	1.000203			
14000.0	618.8	5.0	0.3	470.3	109.1	1.000203			
14500.0	607.4	3.6	-0.8	459.6	109.6	1.000198			
15000.0	596.0	2.4	-3.4	450.4	107.7	1.000191			
15500.0	585.0	1.2	-5.1	445.4	106.7	1.000186			
16000.0	574.0	0.3	-6.3	431.3	105.6	1.000182			
16500.0	563.7	-0.7	-7.4	405.5	104.8	1.000178			
17000.0	552.6	-2.6	-7.4	371.5	104.6	1.000177			
17500.0	542.1	-3.2	-8.5	360.5	104.6	1.000172			
18000.0	531.8	-3.7	-9.0	356.3	104.5	1.000169			
18500.0	521.7	-4.7	-12.7	350.1	104.5	1.000162			
19000.0	511.6	-4.9	-13.1	343.5	104.6	1.000158			
19500.0	501.6	-5.8	-14.7	46.9	104.6	1.000153			
20000.0	492.7	-7.0	-15.8	45.1	104.6	1.000150			
20500.0	482.7	-8.1	-17.2	47.9	104.6	1.000146			
21000.0	473.7	-8.7	-19.1	42.7	104.6	1.000145			
21500.0	464.7	-9.7	-21.1	47.6	104.6	1.000145			
22000.0	455.7	-10.3	-23.3	34.5	104.7	1.000139			
22500.0	446.7	-10.5	-25.7	27.3	104.7	1.000136			
23000.0	437.7	-11.1	-28.4	22.6	104.7	1.000133			
23500.0	428.7	-11.1	-29.2	22.6	104.7	1.000130			
24000.0	420.0	-11.1	-29.2	22.6	104.7	1.000127			
24500.0	411.3	-11.1	-29.2	22.6	104.7	1.000124			

STATION ALTITUDE 4051.57 FEET MSL
 2 SEP. 82 0900 HRS MDT
 ASCLINATION NO. 90

UPPER AIR DATA
 245°C 150090
 TABLE 17, Cont'd

GEODETIC COORDINATES
 32°40'17" LAT DEG
 106°31'22" LONG DEG

GEODETIC PRESSURE ALTITUDE FEET	TEMPERATURE AIR DEPOINT MILLIBARS	REL.HUM. PERCENT	DENSITY GM/CUBIC METER.	SPEED OF WIND DATA KNOTS	DIRECTION DEGREES (TN)	INDEX OF REFRACTION
24500.0	-13.4	24.3	563.5	628.0	32.2	1.000128
24500.0	-12.0	26.2	555.0	626.5	28.7	1.000127
24500.0	-15.9	28.1	546.7	625.0	26.5	1.000125
24500.0	-17.2	29.5	538.4	623.4	21.4	1.000123
24500.0	-18.5	30.3	530.1	621.6	18.9	1.000121
24500.0	-19.7	31.2	522.0	620.3	12.9	1.000119
24500.0	-21.0	32.1	514.0	618.7	19.7	1.000117
24500.0	-21.3	32.0	506.1	617.1	18.6	1.000115
24500.0	-21.6	32.0	498.4	615.5	16.5	1.000113
24500.0	-23.0	32.6	490.8	613.6	13.2	1.000111
24500.0	-24.4	34.7	482.9	612.9	6.0	1.000109
24500.0	-26.1	34.6	462.9	612.9	6.0	1.000109
24500.0	-27.1	34.5	455.4	611.3	4.8	1.000107
24500.0	-27.3	34.5	447.3	609.5	7	1.000105
24500.0	-28.4	34.5	439.9	608.0	5.8	1.000103
24500.0	-29.6	32.9	432.9	606.0	1.3	1.000102
24500.0	-30.6	32.3	425.2	604.9	0.4	1.000101
24500.0	-31.9	31.7	416.9	605.1	0.7	1.000100
24500.0	-32.1	31.1	408.6	604.4	7.6	1.000099
24500.0	-32.3	31.1	400.3	603.6	11.8	1.000098
24500.0	-32.5	31.1	392.1	602.1	15.7	1.000097
24500.0	-32.7	30.5	383.9	601.6	15.1	1.000096
24500.0	-32.9	30.9	375.7	600.8	15.9	1.000095
24500.0	-33.1	30.3	367.4	600.4	15.4	1.000094
24500.0	-33.4	30.1	359.1	599.7	15.1	1.000093
24500.0	-33.6	30.1	350.8	598.9	18.4	1.000092
24500.0	-33.9	30.1	342.5	597.5	20.9	1.000092
24500.0	-34.2	30.1	334.2	596.9	22.7	1.000091
24500.0	-34.5	30.1	325.9	595.9	24.1	1.000090
24500.0	-34.8	30.1	317.6	594.4	24.7	1.000089
24500.0	-35.1	30.1	309.3	593.5	25.6	1.000088
24500.0	-35.4	30.1	301.0	592.5	26.5	1.000087
24500.0	-35.7	30.1	292.7	591.5	27.4	1.000086
24500.0	-36.0	30.1	284.4	590.5	28.3	1.000085
24500.0	-36.3	30.1	276.1	589.5	29.2	1.000084
24500.0	-36.6	30.1	267.8	588.5	29.9	1.000083
24500.0	-36.9	30.1	259.5	587.5	30.6	1.000082
24500.0	-37.2	30.1	251.2	586.5	31.3	1.000081
24500.0	-37.5	30.1	242.9	585.5	32.0	1.000080
24500.0	-37.8	30.1	234.6	584.5	32.7	1.000079
24500.0	-38.1	30.1	226.3	583.5	33.4	1.000078
24500.0	-38.4	30.1	218.0	582.5	34.1	1.000077
24500.0	-38.7	30.1	209.7	581.5	34.8	1.000076
24500.0	-39.0	30.1	201.4	580.5	35.5	1.000075
24500.0	-39.3	30.1	193.1	579.5	36.2	1.000074
24500.0	-39.6	30.1	184.8	578.5	36.9	1.000073
24500.0	-40.0	30.1	176.5	577.5	37.6	1.000072
24500.0	-40.3	30.1	168.2	576.5	38.3	1.000071
24500.0	-40.6	30.1	160.0	575.5	39.0	1.000070
24500.0	-40.9	30.1	151.7	574.5	39.7	1.000069
24500.0	-41.2	30.1	143.4	573.5	40.4	1.000068
24500.0	-41.5	30.1	135.1	572.5	41.1	1.000067
24500.0	-41.8	30.1	126.8	571.5	41.8	1.000066
24500.0	-42.1	30.1	118.5	570.5	42.5	1.000065
24500.0	-42.4	30.1	110.2	569.5	43.2	1.000064
24500.0	-42.7	30.1	101.9	568.5	43.9	1.000063
24500.0	-43.0	30.1	93.6	567.5	44.6	1.000062
24500.0	-43.3	30.1	85.3	566.5	45.3	1.000061
24500.0	-43.6	30.1	77.0	565.5	46.0	1.000060
24500.0	-43.9	30.1	68.7	564.5	46.7	1.000059
24500.0	-44.2	30.1	60.4	563.5	47.4	1.000058
24500.0	-44.5	30.1	52.1	562.5	48.1	1.000057
24500.0	-44.8	30.1	43.8	561.5	48.8	1.000056
24500.0	-45.1	30.1	35.5	560.5	49.5	1.000055
24500.0	-45.4	30.1	27.2	559.5	50.2	1.000054
24500.0	-45.7	30.1	18.9	558.5	50.9	1.000053
24500.0	-46.0	30.1	10.6	557.5	51.6	1.000052
24500.0	-46.3	30.1	2.3	556.5	52.3	1.000051
24500.0	-46.6	30.1	-15.8	555.5	53.0	1.000050
24500.0	-46.9	30.1	-34.1	554.5	53.7	1.000049
24500.0	-47.2	30.1	-52.4	553.5	54.4	1.000048
24500.0	-47.5	30.1	-70.7	552.5	55.1	1.000047
24500.0	-47.8	30.1	-89.0	551.5	55.8	1.000046
24500.0	-48.1	30.1	-107.3	550.5	56.5	1.000045
24500.0	-48.4	30.1	-125.6	549.5	57.2	1.000044
24500.0	-48.7	30.1	-143.9	548.5	57.9	1.000043
24500.0	-49.0	30.1	-162.2	547.5	58.6	1.000042
24500.0	-49.3	30.1	-180.5	546.5	59.3	1.000041
24500.0	-49.6	30.1	-198.8	545.5	59.7	1.000040
24500.0	-50.0	30.1	-217.1	544.5	60.4	1.000039
24500.0	-50.3	30.1	-235.4	543.5	61.1	1.000038
24500.0	-50.6	30.1	-253.7	542.5	61.8	1.000037
24500.0	-50.9	30.1	-272.0	541.5	62.5	1.000036
24500.0	-51.2	30.1	-290.3	540.5	63.2	1.000035
24500.0	-51.5	30.1	-308.6	539.5	63.9	1.000034
24500.0	-51.8	30.1	-326.9	538.5	64.6	1.000033
24500.0	-52.1	30.1	-345.2	537.5	65.3	1.000032
24500.0	-52.4	30.1	-363.5	536.5	66.0	1.000031
24500.0	-52.7	30.1	-381.8	535.5	66.7	1.000030
24500.0	-53.0	30.1	-400.1	534.5	67.4	1.000029
24500.0	-53.3	30.1	-418.4	533.5	68.1	1.000028
24500.0	-53.6	30.1	-436.7	532.5	68.8	1.000027
24500.0	-53.9	30.1	-455.0	531.5	69.5	1.000026
24500.0	-54.2	30.1	-473.3	530.5	70.2	1.000025
24500.0	-54.5	30.1	-491.6	529.5	70.9	1.000024
24500.0	-54.8	30.1	-509.9	528.5	71.6	1.000023
24500.0	-55.1	30.1	-528.2	527.5	72.3	1.000022
24500.0	-55.4	30.1	-546.5	526.5	73.0	1.000021
24500.0	-55.7	30.1	-564.8	525.5	73.7	1.000020
24500.0	-56.0	30.1	-583.1	524.5	74.4	1.000019
24500.0	-56.3	30.1	-601.4	523.5	75.1	1.000018
24500.0	-56.6	30.1	-619.7	522.5	75.8	1.000017
24500.0	-56.9	30.1	-638.0	521.5	76.5	1.000016
24500.0	-57.2	30.1	-656.3	520.5	77.2	1.000015
24500.0	-57.5	30.1	-674.6	519.5	77.9	1.000014
24500.0	-57.8	30.1	-692.9	518.5	78.6	1.000013
24500.0	-58.1	30.1	-711.2	517.5	79.3	1.000012
24500.0	-58.4	30.1	-729.5	516.5	80.0	1.000011
24500.0	-58.7	30.1	-747.8	515.5	80.7	1.000010
24500.0	-59.0	30.1	-766.1	514.5	81.4	1.000009
24500.0	-59.3	30.1	-784.4	513.5	82.1	1.000008
24500.0	-59.6	30.1	-802.7	512.5	82.8	1.000007
24500.0	-60.0	30.1	-821.0	511.5	83.5	1.000006
24500.0	-60.3	30.1	-839.3	510.5	84.2	1.000005
24500.0	-60.6	30.1	-857.6	509.5	84.9	1.000004
24500.0	-61.0	30.1	-875.9	508.5	85.6	1.000003
24500.0	-61.3	30.1	-894.2	507.5	86.3	1.000002
24500.0	-61.6	30.1	-912.5	506.5	87.0	1.000001
24500.0	-62.0	30.1	-930.8	505.5	87.7	1.000000

** AT LEAST ONE ASSUED RELATIVE HUMIDITY VALUE WAS USED IN THE INTERPOLATION.

STATION ALTITUDE 4051.77 FEET PSL
i SEP. 82
ASCENSION NO. 90

UPPER AIR DATA
245012009C
16-37
0900 HRS MDT
TABLE 17 Cont'd

GEODETIC ALTITUDE PSL FEET	PRESSURE MILLIBARS	TEMPERATURE AIR DEGREE C	DEWPOINT PERCENT	REL.HUM. CUBIC METER	DENSITY SOUND KNOTS	SPEED OF WIND DATA DEGREES(TW)	BIGFECTION SPEED KNOTS	INDEX OF REFRACTION	REFRACTION
44000.0	173.7	-59.6	281.5	569.1	353.3	17.6	1.000063		
44500.0	169.5	-60.6	277.9	563.0	345.9	21.0	1.000062		
45000.0	165.5	-61.5	272.3	566.6	341.3	24.4	1.000061		
45500.0	161.5	-61.0	265.3	567.4	339.9	26.7	1.000059		
46000.0	157.6	-63.3	257.7	568.8	339.1	28.7	1.000057		
46500.0	153.8	-61.4	252.7	567.4	340.1	28.4	1.000056		
47000.0	150.1	-62.1	247.8	566.0	340.9	27.9	1.000055		
47500.0	146.3	-62.3	242.6	565.0	340.0	25.2	1.000054		
48000.0	142.9	-63.5	237.5	566.0	339.1	22.6	1.000053		
48500.0	139.4	-64.5	232.5	563.0	342.5	21.6	1.000052		
49000.0	136.0	-65.0	227.6	562.0	346.3	20.7	1.000051		
49500.0	132.6	-65.8	222.8	561.0	350.4	20.8	1.000050		
50000.0	129.4	-66.5	216.1	560.0	354.3	21.0	1.000049		
50500.0	126.2	-65.3	212.1	560.9	358.7	20.4	1.000047		
51000.0	123.1	-66.1	207.7	560.2	37.4	20.1	1.000046		
51500.0	120.0	-67.2	203.0	559.1	6.6	20.0	1.000045		
52000.0	117.0	-68.3	198.9	558.0	9.4	19.9	1.000044		
52500.0	114.1	-68.8	195.6	556.9	13.1	20.3	1.000043		
53000.0	111.3	-68.8	189.7	556.9	17.5	21.2	1.000042		
53500.0	108.5	-68.6	185.0	556.8	22.2	21.7	1.000041		
54000.0	105.8	-68.6	180.4	556.8	28.5	21.4	1.000040		
54500.0	103.1	-69.0	176.0	556.7	35.0	21.1	1.000039		
55000.0	100.6	-69.0	171.6	556.9	44.7	18.0	1.000038		
55500.0	98.1	-68.7	167.1	557.0	57.9	15.6	1.000037		
56000.0	95.6	-68.4	162.7	557.5	66.8	11.4	1.000036		
56500.0	93.3	-68.0	159.4	558.5	81.7	10.4	1.000035		
57000.0	91.0	-67.6	156.7	558.5	92.7	8.6	1.000034		
57500.0	88.7	-67.3	153.9	559.0	88.4	7.0	1.000033		
58000.0	86.4	-66.5	150.4	559.5	92.7	5.0	1.000032		
58500.0	84.0	-66.3	147.6	560.0	56.0	3.0	1.000031		
59000.0	82.0	-66.2	145.7	560.5	41.7	2.0	1.000030		
59500.0	80.3	-65.8	143.9	561.0	68.5	1.5	1.000029		
60000.0	78.5	-65.4	142.1	561.5	156.7	0.0	1.000028		
60500.0	76.4	-65.1	142.7	562.0	170.0	0.0	1.000027		
61000.0	74.5	-64.7	142.5	562.5	178.0	0.0	1.000026		
61500.0	72.6	-64.3	141.2	563.0	184.7	0.0	1.000025		
62000.0	70.8	-64.0	140.0	563.5	176.2	0.0	1.000024		
62500.0	69.1	-63.7	139.1	564.0	158.3	0.0	1.000023		
63000.0	67.4	-63.4	137.9	564.5	136.9	0.0	1.000022		
63500.0	65.8	-63.4	136.7	565.0	107.6	0.0	1.000021		

STATION ALTITUDE 4051 ± 7 FEET MSL
2 SEP. 82 0900 HRS MDT
ASCENSION NO. 90

upper air data
245C1F0090
Lc-3
TABLE 17 Cont

TABLE 17 Cont'd

GEOMETRIC PRESSURE ALTITUDE MSL FEET	TEMPERATURE AIR DEPOINT PERCENT		DENSITY GR/CUBIC METERS		SOUND KNOTS		SPEED OF WIND DATA		INDEX OF REFRACTION	
	DEGREES CENTIGRADE	PERCENT	GRAMS	GRAMS	DEGREES (TWA)	KNOTS	DIRECTION SPEED	DEGREES (TWA)	KNOTS	REFRACTION
64.2	-42.3	0	1.00000	1.00000	102.5	97.0	100.000	100.000	1.00000	1.00000
62.6	-37.1	0	1.00000	1.00000	102.5	97.0	100.000	100.000	1.00000	1.00000
61.1	-31.9	0	1.00000	1.00000	102.5	97.0	100.000	100.000	1.00000	1.00000
59.6	-26.7	0	1.00000	1.00000	102.5	97.0	100.000	100.000	1.00000	1.00000
58.1	-21.5	0	1.00000	1.00000	102.5	97.0	100.000	100.000	1.00000	1.00000
56.6	-16.3	0	1.00000	1.00000	102.5	97.0	100.000	100.000	1.00000	1.00000
55.1	-11.1	0	1.00000	1.00000	102.5	97.0	100.000	100.000	1.00000	1.00000
53.6	-5.9	0	1.00000	1.00000	102.5	97.0	100.000	100.000	1.00000	1.00000
52.1	0.7	0	1.00000	1.00000	102.5	97.0	100.000	100.000	1.00000	1.00000
50.6	5.9	0	1.00000	1.00000	102.5	97.0	100.000	100.000	1.00000	1.00000
49.1	11.1	0	1.00000	1.00000	102.5	97.0	100.000	100.000	1.00000	1.00000
47.6	16.3	0	1.00000	1.00000	102.5	97.0	100.000	100.000	1.00000	1.00000
46.1	21.5	0	1.00000	1.00000	102.5	97.0	100.000	100.000	1.00000	1.00000
44.6	26.7	0	1.00000	1.00000	102.5	97.0	100.000	100.000	1.00000	1.00000
43.1	31.9	0	1.00000	1.00000	102.5	97.0	100.000	100.000	1.00000	1.00000
41.6	37.1	0	1.00000	1.00000	102.5	97.0	100.000	100.000	1.00000	1.00000
40.1	42.3	0	1.00000	1.00000	102.5	97.0	100.000	100.000	1.00000	1.00000
38.6	47.5	0	1.00000	1.00000	102.5	97.0	100.000	100.000	1.00000	1.00000
37.1	52.7	0	1.00000	1.00000	102.5	97.0	100.000	100.000	1.00000	1.00000
35.6	57.9	0	1.00000	1.00000	102.5	97.0	100.000	100.000	1.00000	1.00000
34.1	63.1	0	1.00000	1.00000	102.5	97.0	100.000	100.000	1.00000	1.00000
32.6	68.3	0	1.00000	1.00000	102.5	97.0	100.000	100.000	1.00000	1.00000
31.1	73.5	0	1.00000	1.00000	102.5	97.0	100.000	100.000	1.00000	1.00000
29.6	78.7	0	1.00000	1.00000	102.5	97.0	100.000	100.000	1.00000	1.00000
28.1	83.9	0	1.00000	1.00000	102.5	97.0	100.000	100.000	1.00000	1.00000
26.6	89.1	0	1.00000	1.00000	102.5	97.0	100.000	100.000	1.00000	1.00000
25.1	94.3	0	1.00000	1.00000	102.5	97.0	100.000	100.000	1.00000	1.00000
23.6	99.5	0	1.00000	1.00000	102.5	97.0	100.000	100.000	1.00000	1.00000
22.1	104.7	0	1.00000	1.00000	102.5	97.0	100.000	100.000	1.00000	1.00000
20.6	109.9	0	1.00000	1.00000	102.5	97.0	100.000	100.000	1.00000	1.00000
19.1	115.1	0	1.00000	1.00000	102.5	97.0	100.000	100.000	1.00000	1.00000
17.6	120.3	0	1.00000	1.00000	102.5	97.0	100.000	100.000	1.00000	1.00000
16.1	125.5	0	1.00000	1.00000	102.5	97.0	100.000	100.000	1.00000	1.00000
14.6	130.7	0	1.00000	1.00000	102.5	97.0	100.000	100.000	1.00000	1.00000
13.1	135.9	0	1.00000	1.00000	102.5	97.0	100.000	100.000	1.00000	1.00000
11.6	141.1	0	1.00000	1.00000	102.5	97.0	100.000	100.000	1.00000	1.00000
10.1	146.3	0	1.00000	1.00000	102.5	97.0	100.000	100.000	1.00000	1.00000
8.6	151.5	0	1.00000	1.00000	102.5	97.0	100.000	100.000	1.00000	1.00000
7.1	156.7	0	1.00000	1.00000	102.5	97.0	100.000	100.000	1.00000	1.00000
5.6	161.9	0	1.00000	1.00000	102.5	97.0	100.000	100.000	1.00000	1.00000
4.1	167.1	0	1.00000	1.00000	102.5	97.0	100.000	100.000	1.00000	1.00000
2.6	172.3	0	1.00000	1.00000	102.5	97.0	100.000	100.000	1.00000	1.00000
1.1	177.5	0	1.00000	1.00000	102.5	97.0	100.000	100.000	1.00000	1.00000
0.6	182.7	0	1.00000	1.00000	102.5	97.0	100.000	100.000	1.00000	1.00000
0.1	187.9	0	1.00000	1.00000	102.5	97.0	100.000	100.000	1.00000	1.00000

STATION ALTITUDE 4051.77 FEET MSL
2 SEP '82 0600 HRS MDT
ASCENSION NO. 90

UPPER AIR DATA
245100Z 0600
1637
TABLE 17 Cont'd

GEODETIC COORDINATES
3° 40' 17.5 LAT DEG
106° 31' 23.2 LON DEG

GEOMETRIC PRESSURE ATITUDE *SL FEET	TEMPERATURE AIR DEGREES CENTIGRADE	REL.HUM. PERCENT	DENSITY GM/CUBIC METER	SPEED OF SOUND KNOTS	WIND DATA DIRECTION DEGREES (TM) KNOTS	INDEX OF REFRACTION
84000.0	-47.4	585.4	79.0	32.5	1.0000000	
84500.0	-47.3	585.5	81.7	32.7	1.0000000	
85000.0	-47.2	585.7	84.2	33.1	1.0000000	
85500.0	-47.0	585.8	86.6	33.5	1.0000000	
86000.0	-46.9	585.9	88.8	35.0	1.0000000	
86500.0	-46.8	585.9	90.9	35.5	1.0000000	
87000.0	-46.7	586.0	92.9	36.0	1.0000000	
87500.0	-46.6	586.1	94.9	36.5	1.0000000	
88000.0	-46.5	586.1	96.9	37.0	1.0000000	
88500.0	-46.4	586.1	98.9	37.5	1.0000000	
89000.0	-46.3	586.1	100.9	38.0	1.0000000	
89500.0	-46.2	586.1	102.9	38.5	1.0000000	
90000.0	-46.1	586.1	104.9	39.0	1.0000000	
90500.0	-46.0	586.1	106.9	39.5	1.0000000	
91000.0	-45.9	586.1	108.9	40.0	1.0000000	
91500.0	-45.8	586.2	110.9	40.5	1.0000000	
92000.0	-45.7	586.2	112.9	41.0	1.0000000	
92500.0	-45.6	586.2	114.9	41.5	1.0000000	
93000.0	-45.5	586.3	116.9	42.0	1.0000000	
93500.0	-45.4	586.3	118.9	42.5	1.0000000	
94000.0	-45.3	586.4	120.9	43.0	1.0000000	
94500.0	-45.2	586.4	122.9	43.5	1.0000000	
95000.0	-45.1	586.4	124.9	44.0	1.0000000	
95500.0	-45.0	586.5	126.9	44.5	1.0000000	
96000.0	-44.9	586.5	128.9	45.0	1.0000000	
96500.0	-44.8	586.5	130.9	45.5	1.0000000	
97000.0	-44.7	586.6	132.9	46.0	1.0000000	
97500.0	-44.6	586.6	134.9	46.5	1.0000000	
98000.0	-44.5	586.7	136.9	47.0	1.0000000	
98500.0	-44.4	586.7	138.9	47.5	1.0000000	
99000.0	-44.3	586.8	140.9	48.0	1.0000000	
99500.0	-44.2	586.8	142.9	48.5	1.0000000	
100000.0	-44.1	586.9	144.9	49.0	1.0000000	
101500.0	-44.0	587.0	146.9	49.5	1.0000000	
102000.0	-43.9	587.0	148.9	50.0	1.0000000	
102500.0	-43.8	587.1	150.9	50.5	1.0000000	
103000.0	-43.7	587.1	152.9	51.0	1.0000000	
103500.0	-43.6	587.2	154.9	51.5	1.0000000	
104000.0	-43.5	587.2	156.9	52.0	1.0000000	
104500.0	-43.4	587.3	158.9	52.5	1.0000000	
105000.0	-43.3	587.3	160.9	53.0	1.0000000	
105500.0	-43.2	587.4	162.9	53.5	1.0000000	
106000.0	-43.1	587.4	164.9	54.0	1.0000000	
106500.0	-43.0	587.5	166.9	54.5	1.0000000	
107000.0	-42.9	587.5	168.9	55.0	1.0000000	
107500.0	-42.8	587.6	170.9	55.5	1.0000000	
108000.0	-42.7	587.6	172.9	56.0	1.0000000	
108500.0	-42.6	587.7	174.9	56.5	1.0000000	
109000.0	-42.5	587.7	176.9	57.0	1.0000000	
109500.0	-42.4	587.8	178.9	57.5	1.0000000	
110000.0	-42.3	587.8	180.9	58.0	1.0000000	
110500.0	-42.2	587.9	182.9	58.5	1.0000000	
111000.0	-42.1	587.9	184.9	59.0	1.0000000	
111500.0	-42.0	588.0	186.9	59.5	1.0000000	
112000.0	-41.9	588.0	188.9	60.0	1.0000000	
112500.0	-41.8	588.1	190.9	60.5	1.0000000	
113000.0	-41.7	588.1	192.9	61.0	1.0000000	
113500.0	-41.6	588.2	194.9	61.5	1.0000000	
114000.0	-41.5	588.2	196.9	62.0	1.0000000	
114500.0	-41.4	588.3	198.9	62.5	1.0000000	
115000.0	-41.3	588.3	200.9	63.0	1.0000000	
115500.0	-41.2	588.4	202.9	63.5	1.0000000	
116000.0	-41.1	588.4	204.9	64.0	1.0000000	
116500.0	-41.0	588.5	206.9	64.5	1.0000000	
117000.0	-40.9	588.5	208.9	65.0	1.0000000	
117500.0	-40.8	588.6	210.9	65.5	1.0000000	
118000.0	-40.7	588.6	212.9	66.0	1.0000000	
118500.0	-40.6	588.7	214.9	66.5	1.0000000	
119000.0	-40.5	588.7	216.9	67.0	1.0000000	
119500.0	-40.4	588.8	218.9	67.5	1.0000000	
120000.0	-40.3	588.8	220.9	68.0	1.0000000	
120500.0	-40.2	588.9	222.9	68.5	1.0000000	
121000.0	-40.1	588.9	224.9	69.0	1.0000000	
121500.0	-40.0	589.0	226.9	69.5	1.0000000	
122000.0	-39.9	589.0	228.9	70.0	1.0000000	
122500.0	-39.8	589.1	230.9	70.5	1.0000000	
123000.0	-39.7	589.1	232.9	71.0	1.0000000	
123500.0	-39.6	589.2	234.9	71.5	1.0000000	
124000.0	-39.5	589.2	236.9	72.0	1.0000000	
124500.0	-39.4	589.3	238.9	72.5	1.0000000	
125000.0	-39.3	589.3	240.9	73.0	1.0000000	
125500.0	-39.2	589.4	242.9	73.5	1.0000000	
126000.0	-39.1	589.4	244.9	74.0	1.0000000	
126500.0	-39.0	589.5	246.9	74.5	1.0000000	
127000.0	-38.9	589.5	248.9	75.0	1.0000000	
127500.0	-38.8	589.6	250.9	75.5	1.0000000	
128000.0	-38.7	589.6	252.9	76.0	1.0000000	
128500.0	-38.6	589.7	254.9	76.5	1.0000000	
129000.0	-38.5	589.7	256.9	77.0	1.0000000	
129500.0	-38.4	589.8	258.9	77.5	1.0000000	
130000.0	-38.3	589.8	260.9	78.0	1.0000000	
130500.0	-38.2	589.9	262.9	78.5	1.0000000	
131000.0	-38.1	589.9	264.9	79.0	1.0000000	
131500.0	-38.0	590.0	266.9	79.5	1.0000000	
132000.0	-37.9	590.0	268.9	80.0	1.0000000	
132500.0	-37.8	590.1	270.9	80.5	1.0000000	
133000.0	-37.7	590.1	272.9	81.0	1.0000000	
133500.0	-37.6	590.2	274.9	81.5	1.0000000	
134000.0	-37.5	590.2	276.9	82.0	1.0000000	
134500.0	-37.4	590.3	278.9	82.5	1.0000000	
135000.0	-37.3	590.3	280.9	83.0	1.0000000	
135500.0	-37.2	590.4	282.9	83.5	1.0000000	
136000.0	-37.1	590.4	284.9	84.0	1.0000000	
136500.0	-37.0	590.5	286.9	84.5	1.0000000	
137000.0	-36.9	590.5	288.9	85.0	1.0000000	
137500.0	-36.8	590.6	290.9	85.5	1.0000000	
138000.0	-36.7	590.6	292.9	86.0	1.0000000	
138500.0	-36.6	590.7	294.9	86.5	1.0000000	
139000.0	-36.5	590.7	296.9	87.0	1.0000000	
139500.0	-36.4	590.8	298.9	87.5	1.0000000	
140000.0	-36.3	590.8	300.9	88.0	1.0000000	
140500.0	-36.2	590.9	302.9	88.5	1.0000000	
141000.0	-36.1	590.9	304.9	89.0	1.0000000	
141500.0	-36.0	591.0	306.9	89.5	1.0000000	
142000.0	-35.9	591.0	308.9	90.0	1.0000000	
142500.0	-35.8	591.1	310.9	90.5	1.0000000	
143000.0	-35.7	591.1	312.9	91.0	1.0000000	
143500.0	-35.6	591.2	314.9	91.5	1.0000000	
144000.0	-35.5	591.2	316.9	92.0	1.0000000	
144500.0	-35.4	591.3	318.9	92.5	1.0000000	
145000.0	-35.3	591.3	320.9	93.0	1.0000000	
145500.0	-35.2	591.4	322.9	93.5	1.0000000	
146000.0	-35.1	591.4	324.9	94.0	1.0000000	
146500.0	-35.0	591.5	326.9	94.5	1.0000000	
147000.0	-34.9	591.5	328.9	95.0	1.0000000	
147500.0	-34.8	591.6	330.9	95.5	1.0000000	
148000.0	-34.7	591.6	332.9	96.0	1.0000000	
148500.0	-34.6	591.7	334.9	96.5	1.0000000	
149000.0	-34.5	591.7	336.9	97.0	1.0000000	
149500.0	-34.4	591.8	338.9	97.5	1.0000000	
150000.0	-34.3	591.8	340.9	98.0	1.0000000	
150500.0	-34.2	591.9	342.9	98.5	1.0000000	
151000.0	-34.1	591.9	344.9	99.0	1.0000000	
151500.0	-34.0	592.0	346.9	99.5	1.0000000	
152000.0	-33.9	592.0	348.9	100.0	1.0000000	

STATION ALTITUDE 4051.37 FEET PSL
2 SEP. 92 0900 HRS MDT
ASCENSION NO. 90

UPPER AIR DATA
2450100090
LC-37
TABLE 17 Cont'd.

GEOMETRIC ALTITUDE NSL FEET	PRESSURE MILLIBARS	TEMPERATURE DEGREES CENTIGRADE	REL.HUM. PERCENT	SOUND METER	DENSITY GM/CUBIC METER	SPEED OF WIND DATA KNOTS	DIRECTION DEGREES (TN)	INDEX OF REFRACTION
124000.0	10.2	-76.6	599.2	69.9	1.000003	66.2	1.000003	
124500.0	10.0	-75.2	600.9	70.8	1.000003	66.2	1.000003	
125000.0	9.8	-75.2	600.9	71.7	1.000003	64.2	1.000003	
125500.0	9.6	-75.2	600.9	74.6	1.000003	63.4	1.000003	
126000.0	9.4	-75.2	600.9	77.6	1.000003	62.6	1.000003	
126500.0	9.2	-75.2	600.9	80.6	1.000003	62.0	1.000003	
127000.0	9.0	-75.3	600.9	83.7	1.000003	61.4	1.000003	
127500.0	8.8	-75.3	600.9	86.1	1.000003	60.6	1.000003	
128000.0	8.6	-75.3	600.9	88.5	1.000003	59.9	1.000003	
128500.0	8.4	-75.3	600.9	91.1	1.000003	59.2	1.000003	
129000.0	8.2	-75.3	600.9	94.1	1.000003	58.7	1.000003	
129500.0	8.1	-75.3	600.9	96.4	1.000003	58.2	1.000003	
130000.0	7.9	-75.3	600.9	98.6	1.000003	57.9	1.000003	
130500.0	7.7	-75.3	600.9	102.8	1.000003	57.6	1.000003	
131000.0	7.6	-75.4	600.8	107.2	1.000003	57.2	1.000003	
131500.0	7.4	-75.4	600.7	110.9	1.000003	57.2	1.000003	
132000.0	7.2	-75.4	600.7	113.5	1.000003	55.3	1.000003	
132500.0	7.1	-75.4	600.6	116.4	1.000002	53.4	1.000002	
133000.0	7.0	-75.4	600.5	119.6	1.000002	51.7	1.000002	
133500.0	6.9	-75.4	600.5	122.2	1.000002	49.4	1.000002	
134000.0	6.8	-75.4	600.7	124.0	1.000002	46.9	1.000002	
134500.0	6.7	-75.3	600.7	126.7	1.000002	23.7	1.000002	
135000.0	6.6	-75.3	600.7	129.2	1.000002	21.0	1.000002	
135500.0	6.5	-75.3	601.0	130.1	1.000002	18.6	1.000002	
136000.0	6.4	-75.1	601.2	129.0	1.000002	16.4	1.000002	
136500.0	6.3	-75.1	601.4	127.6	1.000002	14.2	1.000002	
137000.0	6.2	-75.1	601.7	125.6	1.000002	11.7	1.000002	
137500.0	6.1	-75.0	601.9	127.4	1.000002	10.4	1.000002	
138000.0	6.0	-75.0	601.9	129.0	1.000002	12.3	1.000002	
138500.0	5.9	-75.0	601.5	126.7	1.000002	13.4	1.000002	
139000.0	5.8	-75.0	601.5	129.7	1.000002	91.6	1.000002	
139500.0	5.7	-75.0	601.5	130.3	1.000002	70.3	1.000002	
140000.0	5.6	-75.0	601.5	129.0	1.000002	60.1	1.000002	
140500.0	5.5	-75.0	601.7	127.6	1.000002	70.8	1.000002	
141000.0	5.4	-75.0	601.7	125.6	1.000002	70.6	1.000002	
141500.0	5.3	-75.0	601.7	127.4	1.000002	70.7	1.000002	
142000.0	5.2	-75.0	601.7	129.0	1.000002	70.3	1.000002	
142500.0	5.1	-75.0	601.5	126.7	1.000002	70.3	1.000002	
143000.0	5.0	-75.0	601.5	129.7	1.000002	70.3	1.000002	
143500.0	4.9	-75.0	601.5	130.3	1.000002	70.3	1.000002	
144000.0	4.8	-75.0	601.5	129.0	1.000002	70.3	1.000002	
144500.0	4.7	-75.0	601.7	127.6	1.000002	70.8	1.000002	
145000.0	4.6	-75.0	601.7	125.6	1.000002	70.6	1.000002	
145500.0	4.5	-75.0	601.7	127.4	1.000002	70.7	1.000002	
146000.0	4.4	-75.0	601.7	129.0	1.000002	70.3	1.000002	
146500.0	4.3	-75.0	601.5	126.7	1.000002	70.3	1.000002	
147000.0	4.2	-75.0	601.5	129.7	1.000002	70.3	1.000002	
147500.0	4.1	-75.0	601.5	130.3	1.000002	70.3	1.000002	
148000.0	4.0	-75.0	601.5	129.0	1.000002	70.3	1.000002	
148500.0	3.9	-75.0	601.7	127.6	1.000002	70.8	1.000002	
149000.0	3.8	-75.0	601.7	125.6	1.000002	70.6	1.000002	
149500.0	3.7	-75.0	601.7	127.4	1.000002	70.7	1.000002	
150000.0	3.6	-75.0	601.7	129.0	1.000002	70.3	1.000002	
150500.0	3.5	-75.0	601.5	126.7	1.000002	70.3	1.000002	
151000.0	3.4	-75.0	601.5	129.7	1.000002	70.3	1.000002	
151500.0	3.3	-75.0	601.5	130.3	1.000002	70.3	1.000002	
152000.0	3.2	-75.0	601.5	129.0	1.000002	70.3	1.000002	
152500.0	3.1	-75.0	601.7	127.6	1.000002	70.8	1.000002	
153000.0	3.0	-75.0	601.7	125.6	1.000002	70.6	1.000002	
153500.0	2.9	-75.0	601.7	127.4	1.000002	70.7	1.000002	
154000.0	2.8	-75.0	601.7	129.0	1.000002	70.3	1.000002	
154500.0	2.7	-75.0	601.5	126.7	1.000002	70.3	1.000002	
155000.0	2.6	-75.0	601.5	129.7	1.000002	70.3	1.000002	
155500.0	2.5	-75.0	601.5	130.3	1.000002	70.3	1.000002	
156000.0	2.4	-75.0	601.5	129.0	1.000002	70.3	1.000002	
156500.0	2.3	-75.0	601.7	127.6	1.000002	70.8	1.000002	
157000.0	2.2	-75.0	601.7	125.6	1.000002	70.6	1.000002	
157500.0	2.1	-75.0	601.7	127.4	1.000002	70.7	1.000002	
158000.0	2.0	-75.0	601.7	129.0	1.000002	70.3	1.000002	
158500.0	1.9	-75.0	601.5	126.7	1.000002	70.3	1.000002	
159000.0	1.8	-75.0	601.5	129.7	1.000002	70.3	1.000002	
159500.0	1.7	-75.0	601.5	130.3	1.000002	70.3	1.000002	
160000.0	1.6	-75.0	601.5	129.0	1.000002	70.3	1.000002	
160500.0	1.5	-75.0	601.7	127.6	1.000002	70.8	1.000002	
161000.0	1.4	-75.0	601.7	125.6	1.000002	70.6	1.000002	
161500.0	1.3	-75.0	601.7	127.4	1.000002	70.7	1.000002	
162000.0	1.2	-75.0	601.7	129.0	1.000002	70.3	1.000002	
162500.0	1.1	-75.0	601.5	126.7	1.000002	70.3	1.000002	
163000.0	1.0	-75.0	601.5	129.7	1.000002	70.3	1.000002	
163500.0	0.9	-75.0	601.5	130.3	1.000002	70.3	1.000002	
164000.0	0.8	-75.0	601.5	129.0	1.000002	70.3	1.000002	
164500.0	0.7	-75.0	601.7	127.6	1.000002	70.8	1.000002	
165000.0	0.6	-75.0	601.7	125.6	1.000002	70.6	1.000002	
165500.0	0.5	-75.0	601.7	127.4	1.000002	70.7	1.000002	
166000.0	0.4	-75.0	601.7	129.0	1.000002	70.3	1.000002	
166500.0	0.3	-75.0	601.5	126.7	1.000002	70.3	1.000002	
167000.0	0.2	-75.0	601.5	129.7	1.000002	70.3	1.000002	
167500.0	0.1	-75.0	601.5	130.3	1.000002	70.3	1.000002	
168000.0	0.0	-75.0	601.5	129.0	1.000002	70.3	1.000002	
168500.0	-1.0	-75.0	601.7	127.6	1.000002	70.8	1.000002	
169000.0	-1.1	-75.0	601.7	125.6	1.000002	70.6	1.000002	
169500.0	-1.2	-75.0	601.7	127.4	1.000002	70.7	1.000002	
170000.0	-1.3	-75.0	601.7	129.0	1.000002	70.3	1.000002	
170500.0	-1.4	-75.0	601.5	126.7	1.000002	70.3	1.000002	
171000.0	-1.5	-75.0	601.5	129.7	1.000002	70.3	1.000002	
171500.0	-1.6	-75.0	601.5	130.3	1.000002	70.3	1.000002	
172000.0	-1.7	-75.0	601.5	129.0	1.000002	70.3	1.000002	
172500.0	-1.8	-75.0	601.7	127.6	1.000002	70.8	1.000002	
173000.0	-1.9	-75.0	601.7	125.6	1.000002	70.6	1.000002	
173500.0	-2.0	-75.0	601.7	127.4	1.000002	70.7	1.000002	
174000.0	-2.1	-75.0	601.7	129.0	1.000002	70.3	1.000002	
174500.0	-2.2	-75.0	601.5	126.7	1.000002	70.3	1.000002	
175000.0	-2.3	-75.0	601.5	129.7	1.000002	70.3	1.000002	
175500.0	-2.4	-75.0	601.5	130.3	1.000002	70.3	1.000002	
176000.0	-2.5	-75.0	601.5	129.0	1.000002	70.3	1.000002	
176500.0	-2.6	-75.0	601.7	127.6	1.000002	70.8	1.000002	
177000.0	-2.7	-75.0	601.7	125.6	1.000002	70.6	1.000002	
177500.0	-2.8	-75.0	601.7	127.4	1.000002	70.7	1.000002	
178000.0	-2.9	-75.0	601.7	129.0	1.000002	70.3	1.000002	
178500.0	-3.0	-75.0	601.5	126.7	1.000002	70.3	1.000002	
179000.0	-3.1	-75.0	601.5	129.7	1.000002	70.3	1.000002	
179500.0	-3.2	-75.0	601.5	130.3	1.000002	70.3	1.000002	
180000.0	-3.3	-75.0	601.5	129.0	1.000002	70.3	1.000002	
180500.0	-3.4	-75.0	601.7	127.6	1.000002	70.8	1.000002	
181000.0	-3.5	-75.0	601.7	125.6	1.000002	70.6	1.000002	
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STATION ALTITUDE 4051.77 FEET MSL
250180090
15-37
ASCESSION NO. 96
250, 251, 0600 HRS MDT

MANDATORY LEVELS
TABLE 18

GEOGRAPHIC COORDINATES
52° 40' 17.5" LAT DEG
106° 71' 27" LON DEG

PRESSURE MILLIBARS	GEOPOTENTIAL FEET	TEMPERATURE DEGREES CENTIGRADE	REL.HUM. PERCENT	WIND DATA	
				DIRECTION DEGREES(TMD)	SPEED KNOTS
950.0	5112.	25.1	10.4	32.	82.6
900.0	6257.	22.5	8.4	60.	111.8
750.0	8667.	19.2	5.7	41.	82.1
700.0	10610.	14.5	2.6	43.	70.1
650.0	12657.	8.8	1.1	59.	79.6
600.0	14610.	2.8	-2.5	68.	78.5
550.0	17101.	-7.6	-7.1	77.	55.5
500.0	19570.	-6.0	-16.7	0.	66.0
450.0	22253.	-10.2	-26.6	20.	45.0
400.0	25199.	-16.5	-37.5	29.	25.1
350.0	28440.	-24.9	-35.9	35.	15.4
300.0	32055.	-27.4	-46.6	31.	367.5
250.0	36168.	-42.4			350.0
200.0	40972.	-54.8			357.2
175.0	43744.	-59.5			356.3
150.0	46690.	-62.1			340.9
125.0	50563.	-65.8			27.9
100.0	54937.	-69.0			14.9
80.0	59349.	-65.7			14.9
70.0	62025.	-63.8			100.7
60.0	65138.	-60.0			12.3
50.0	68899.	-55.4			61.8
40.0	73627.	-50.4			46.6
30.0	79778.	-48.2			17.6
25.0	83727.	-47.3			17.6
20.0	86580.	-46.3			71.9
15.0	90890.	-43.5			77.3
10.0	103935.	-35.2			70.7
7.0	112087.	-35.4			46.2
5.0	119797.	-36.5			120.9

* AT LEAST ONE ASSUMED RELATIVE HUMIDITY VALUE WAS USED IN THE INTERPOLATION.

SATION ALTITUDE 3956.00 FEET MSL
ACCTM10N NO. 445
2 SEP. 82
245°C 02045
WHITE SANDS
TABLE 19

SIGNIFICANT LEVEL DATA

GEODETIC COORDINATES
106° 37' 03" LONG 36°
32' 40" LAT 06° 56' 56"

PRESSURE GEOMETRIC ALTITUDE MILLIBARS MSL FEET	DEGREES CENTIGRADE	TEMPERATURE AIR DEPOINT PERCENT REL.HUM.	
		25	10
564.0	399.0	-5.3	-5.3
677.4	420.5	-6.0	-6.0
880.9	475.6	-6.5	-6.5
1094.4	524.0	-7.0	-7.0
1307.9	572.0	-7.5	-7.5
1521.4	620.0	-8.0	-8.0
1734.9	668.0	-8.5	-8.5
1948.4	715.0	-9.0	-9.0
2161.9	762.0	-9.5	-9.5
2375.4	809.0	-10.0	-10.0
2588.9	856.0	-10.5	-10.5
2802.4	903.0	-11.0	-11.0
3015.9	950.0	-11.5	-11.5
3229.4	997.0	-12.0	-12.0
3442.9	1044.0	-12.5	-12.5
3656.4	1091.0	-13.0	-13.0
3869.9	1138.0	-13.5	-13.5
4083.4	1185.0	-14.0	-14.0
4296.9	1232.0	-14.5	-14.5
4510.4	1279.0	-15.0	-15.0
4723.9	1326.0	-15.5	-15.5
4937.4	1373.0	-16.0	-16.0
5150.9	1420.0	-16.5	-16.5
5364.4	1467.0	-17.0	-17.0
5577.9	1514.0	-17.5	-17.5
5791.4	1561.0	-18.0	-18.0
5994.9	1608.0	-18.5	-18.5
6208.4	1655.0	-19.0	-19.0
6421.9	1702.0	-19.5	-19.5
6635.4	1749.0	-20.0	-20.0
6848.9	1796.0	-20.5	-20.5
7062.4	1843.0	-21.0	-21.0
7275.9	1890.0	-21.5	-21.5
7489.4	1937.0	-22.0	-22.0
7702.9	1984.0	-22.5	-22.5
7916.4	2031.0	-23.0	-23.0
8129.9	2078.0	-23.5	-23.5
8343.4	2125.0	-24.0	-24.0
8556.9	2172.0	-24.5	-24.5
8770.4	2219.0	-25.0	-25.0
8983.9	2266.0	-25.5	-25.5
9197.4	2313.0	-26.0	-26.0
9410.9	2360.0	-26.5	-26.5
9624.4	2407.0	-27.0	-27.0
9837.9	2454.0	-27.5	-27.5
10051.4	2501.0	-28.0	-28.0
10264.9	2548.0	-28.5	-28.5
10478.4	2595.0	-29.0	-29.0
10691.9	2642.0	-29.5	-29.5
10905.4	2689.0	-30.0	-30.0
11118.9	2736.0	-30.5	-30.5
11332.4	2783.0	-31.0	-31.0
11545.9	2830.0	-31.5	-31.5
11759.4	2877.0	-32.0	-32.0
11972.9	2924.0	-32.5	-32.5
12186.4	2971.0	-33.0	-33.0
12399.9	3018.0	-33.5	-33.5
12613.4	3065.0	-34.0	-34.0
12826.9	3112.0	-34.5	-34.5
13040.4	3159.0	-35.0	-35.0
13253.9	3206.0	-35.5	-35.5
13467.4	3253.0	-36.0	-36.0
13680.9	3290.0	-36.5	-36.5
13894.4	3337.0	-37.0	-37.0
14107.9	3384.0	-37.5	-37.5
14321.4	3431.0	-38.0	-38.0
14534.9	3478.0	-38.5	-38.5
14748.4	3525.0	-39.0	-39.0
14961.9	3572.0	-39.5	-39.5
15175.4	3619.0	-40.0	-40.0
15388.9	3666.0	-40.5	-40.5
15602.4	3713.0	-41.0	-41.0
15815.9	3760.0	-41.5	-41.5
16028.4	3807.0	-42.0	-42.0
16241.9	3854.0	-42.5	-42.5
16455.4	3901.0	-43.0	-43.0
16668.9	3948.0	-43.5	-43.5
16882.4	3995.0	-44.0	-44.0
17195.9	4042.0	-44.5	-44.5
17409.4	4089.0	-45.0	-45.0
17622.9	4136.0	-45.5	-45.5
17836.4	4183.0	-46.0	-46.0
18050.9	4230.0	-46.5	-46.5
18264.4	4277.0	-47.0	-47.0
18477.9	4324.0	-47.5	-47.5
18691.4	4371.0	-48.0	-48.0
18905.9	4418.0	-48.5	-48.5
19119.4	4465.0	-49.0	-49.0
19333.9	4512.0	-49.5	-49.5
19547.4	4559.0	-50.0	-50.0
19760.9	4606.0	-50.5	-50.5
19974.4	4653.0	-51.0	-51.0
20187.9	4699.0	-51.5	-51.5
20401.4	4746.0	-52.0	-52.0
20614.9	4793.0	-52.5	-52.5
20828.4	4839.0	-53.0	-53.0
21041.9	4886.0	-53.5	-53.5
21255.4	4933.0	-54.0	-54.0
21468.9	4980.0	-54.5	-54.5
21682.4	5027.0	-55.0	-55.0
21895.9	5074.0	-55.5	-55.5
22109.4	5121.0	-56.0	-56.0
22323.9	5168.0	-56.5	-56.5
22537.4	5215.0	-57.0	-57.0
22750.9	5262.0	-57.5	-57.5
22964.4	5309.0	-58.0	-58.0
23177.9	5356.0	-58.5	-58.5
23391.4	5403.0	-59.0	-59.0
23604.9	5450.0	-59.5	-59.5
23818.4	5497.0	-60.0	-60.0
24031.9	5544.0	-60.5	-60.5
24245.4	5591.0	-61.0	-61.0
24458.9	5638.0	-61.5	-61.5
24672.4	5685.0	-62.0	-62.0
24885.9	5732.0	-62.5	-62.5
25109.4	5779.0	-63.0	-63.0
25323.9	5826.0	-63.5	-63.5
25537.4	5873.0	-64.0	-64.0
25750.9	5920.0	-64.5	-64.5
25964.4	5967.0	-65.0	-65.0
26177.9	6014.0	-65.5	-65.5
26391.4	6061.0	-66.0	-66.0
26604.9	6108.0	-66.5	-66.5
26818.4	6155.0	-67.0	-67.0
27031.9	6202.0	-67.5	-67.5
27245.4	6249.0	-68.0	-68.0
27458.9	6296.0	-68.5	-68.5
27672.4	6343.0	-69.0	-69.0
27885.9	6390.0	-69.5	-69.5
28109.4	6437.0	-70.0	-70.0
28323.9	6484.0	-70.5	-70.5
28537.4	6531.0	-71.0	-71.0
28750.9	6578.0	-71.5	-71.5
28964.4	6625.0	-72.0	-72.0
29177.9	6672.0	-72.5	-72.5
29391.4	6719.0	-73.0	-73.0
29604.9	6766.0	-73.5	-73.5
29818.4	6813.0	-74.0	-74.0
30031.9	6860.0	-74.5	-74.5
30245.4	6907.0	-75.0	-75.0
30458.9	6954.0	-75.5	-75.5
30672.4	7001.0	-76.0	-76.0
30885.9	7048.0	-76.5	-76.5
31109.4	7095.0	-77.0	-77.0
31323.9	7142.0	-77.5	-77.5
31537.4	7189.0	-78.0	-78.0
31750.9	7236.0	-78.5	-78.5
31964.4	7283.0	-79.0	-79.0
32177.9	7330.0	-79.5	-79.5
32391.4	7377.0	-80.0	-80.0
32604.9	7424.0	-80.5	-80.5
32818.4	7471.0	-81.0	-81.0
33031.9	7518.0	-81.5	-81.5
33245.4	7565.0	-82.0	-82.0
33458.9	7612.0	-82.5	-82.5
33672.4	7659.0	-83.0	-83.0
33885.9	7706.0	-83.5	-83.5
34109.4	7753.0	-84.0	-84.0
34323.9	7799.0	-84.5	-84.5
34537.4	7846.0	-85.0	-85.0
34750.9	7893.0	-85.5	-85.5
34964.4	7940.0	-86.0	-86.0
35177.9	7987.0	-86.5	-86.5
35391.4	8034.0	-87.0	-87.0
35604.9	8081.0	-87.5	-87.5
35818.4	8128.0	-88.0	-88.0
36031.9	8175.0	-88.5	-88.5
36245.4	8222.0	-89.0	-89.0
36458.9	8269.0	-89.5	-89.5
36672.4	8316.0	-90.0	-90.0
36885.9	8363.0	-90.5	-90.5
37109.4	8410.0	-91.0	-91.0
37323.9	8457.0	-91.5	-91.5
37537.4	8504.0	-92.0	-92.0
37750.9	8551.0	-92.5	-92.5
37964.4	8598.0	-93.0	-93.0
38177.9	8645.0	-93.5	-93.5
38391.4	8692.0	-94.0	-94.0
38604.9	8739.0	-94.5	-94.5
38818.4	8786.0	-95.0	-95.0
39031.9	8833.0	-95.5	-95.5
39245.4	8880.0	-96.0	-96.0
39458.9	8927.0	-96.5	-96.5
39672.4	8974.0	-97.0	-97.0
39885.9	9021.0	-97.5	-97.5
40109.4	9068.0	-98.0	-98.0
40323.9	9115.0	-98.5	-98.5
40537.4	9162.0	-99.0	-99.0
40750.9	9209.0	-99.5	-99.5
40964.4	9256.0	-100.0	-100.0

STATION ALTITUDE 3929.0 FEET MSL
2 SEP. 82 0925 HRS WST
ASCENSION NO. 445

SIGNIFICANT LEVEL DATA
25002645
WHITE SANDS
TABLE 19 Cont'd.

GEOGRAPHIC COORDINATES
32.40045 LAT DEG
106.37033 LON DEG

PRESSURE GEOMETRIC MILLIBARS -SL FEET	ALTITUDE DEGREES CENTIGRADE	TEMPERATURE AIR DEPOINT PERCENT	REL.HUM.
50.0	69172.4	-52.0	
42.2	72804.9	-50.4	
37.5	75366.1	-51.4	
34.5	77152.6	-47.5	
32.0	80203.7	-48.1	
29.1	85947.3	-49.7	
20.0	89144.7	-43.9	
17.7	91856.2	-44.7	
10.0	103760.0	-35.9	
9.6	106188.5	-35.0	

STATION ALTITUDE 3989.00 FEET MSL
2 SEP. 82 0925 HRS MDT
ASSIGNMENT NO. 445

UPPER AIR DATA
2450-2445
WHITE SANDS
TABLE 20

GEOMETRIC ALTITUDE FEET MSL	PRESSURE MILLIBARS	TEMPERATURE AIR DEGREES CENTIGRADE	REL.HUM. PERCENT	SOUND CUBIC KNOTS	WIND DATA DIRECTION DEGREES (TND)	SPEED OF REFRACTION KNOTS	INDEX OF REFRACTION	
							INDEX OF REFRACTION	INDEX OF REFRACTION
3989.0	884.0	10.0	676.0	1526.9	150.0	1.000283	1.000283	1.000283
4000.0	883.7	10.5	676.5	1026.2	150.1	1.000273	1.000273	1.000273
4500.0	868.5	9.1	676.4	1005.6	150.0	1.000274	1.000274	1.000274
5000.0	853.7	10.2	76.0	989.9	675.2	22.7	2.9	1.000270
5500.0	839.0	9.6	79.3	976.2	676.1	71.0	2.9	1.000265
6000.0	824.5	9.7	79.7	961.5	677.3	87.2	3.5	1.000261
6500.0	810.2	9.0	40.1	947.2	677.6	91.5	3.7	1.000259
7000.0	796.2	7.7	3.6	932.7	671.8	94.9	2.7	1.000259
7500.0	782.5	22.3	6.1	918.0	671.1	93.1	2.6	1.000252
8000.0	768.8	20.9	7.4	906.1	669.6	87.5	2.0	1.000247
8500.0	755.2	19.3	6.6	892.8	668.4	83.5	4.6	1.000242
9000.0	742.0	18.0	5.7	881.8	667.0	80.6	6.5	1.000237
9500.0	728.9	17.4	4.5	866.9	655.6	76.6	8.4	1.000233
10000.0	716.1	16.3	4.1	844.2	658.2	75.1	10.4	1.000228
10500.0	703.5	15.1	3.2	846.6	652.6	75.1	12.4	1.000224
11000.0	690.8	13.7	2.5	835.4	651.2	76.1	12.9	1.000221
11500.0	678.3	12.2	2.0	826.6	655.5	77.4	12.2	1.000219
12000.0	666.0	10.8	2.3	814.7	657.6	79.1	12.5	1.000219
12500.0	653.9	9.7	2.5	807.1	656.1	80.7	13.3	1.000214
13000.0	642.0	7.8	2.1	792.7	654.4	82.0	13.7	1.000208
13500.0	630.5	6.3	1.7	782.5	652.6	82.1	13.7	1.000208
14000.0	618.9	4.3	1.1	772.6	650.5	82.5	14.1	1.000205
14500.0	607.4	3.5	0.5	762.6	649.1	83.2	14.6	1.000201
15000.0	595.2	2.0	-3.0	751.7	647.2	80.7	15.6	1.000192
15500.0	585.2	0.8	-3.6	742.4	645.6	76.7	15.6	1.000185
16000.0	574.2	-1.3	-7.2	731.4	644.3	69.4	15.5	1.000181
16500.0	563.4	-1.1	-2.3	720.5	642.0	67.2	15.5	1.000177
17000.0	552.2	-1.2	-7.7	708.6	631.7	57.5	15.6	1.000176
17500.0	542.4	-1.4	-9.1	698.7	620.5	52.5	15.7	1.000172
18000.0	531.8	-0.2	-10.1	687.6	619.5	50.6	15.5	1.000169
18500.0	521.7	-1.2	-16.7	676.2	618.7	52.7	15.7	1.000158
19000.0	511.7	-1.4	-16.7	665.6	617.7	57.4	14.9	1.000155
19500.0	501.6	-0.6	-16.7	655.1	615.1	54.5	14.9	1.000152
20000.0	492.2	-0.3	-15.5	645.6	614.5	51.6	14.8	1.000151
20500.0	482.7	-0.2	-15.5	635.6	613.6	49.6	14.8	1.000149
21000.0	473.5	-0.2	-15.5	625.2	612.6	47.6	14.7	1.000145
21500.0	464.0	-0.3	-15.5	615.6	611.6	45.6	14.6	1.000142
22000.0	455.0	-0.2	-15.5	605.6	607.6	43.6	14.6	1.000141
22500.0	446.1	-0.2	-15.5	595.6	605.6	41.6	14.5	1.000139
23000.0	437.3	-0.2	-15.5	585.6	605.6	40.6	14.5	1.000137

AT LEAST ONE ASSUME RELATIVE HUMIDITY VALUE WAS USED IN THE INTERPOLATION

STATION ALTITUDE 3688.00 FEET MSL
? SEC P-92 0925 HRS MDT
ACCURACY NO. 445

TABLE 20 Cont

GEOMETRIC COORDINATES

STATION ALTITUDE 3669.39 FEET MSL
245°020445
2 SEP. 82
0825 HRS MDT
MISSION NO. 465

UPPER AIR DATA
245°020445
WHITE SHIPS
TABLE 20 Cont'd.

GEOGRAPHIC COORDINATES
32°00'03" LAT DEG
106°37'03" LONG DEG

GEOMETRIC ALTITUDE MILLIBARS	PRESSURE MILLIBARS	TEMPERATURE AIR DEGREES CENTIGRAVE	REL.HUM. PERCENT	DENSITY METER	SOUND KNOTS	WIND DATA DIRECTION DEGREES (TM)	SPEED KNOTS	INDEX OF REFRACTION
177.5	43500.0	-56.5	289.4	569.5	359.0	16.0	1.0000664	
173.2	43500.0	-56.5	289.4	569.5	348.9	17.4	1.0000663	
169.1	43500.0	-60.7	289.4	569.3	347.3	21.0	1.0000662	
165.0	43500.0	-60.7	289.4	569.3	347.0	26.4	1.0000660	
161.1	43500.0	-59.7	277.7	567.8	342.1	27.5	1.0000559	
157.2	43500.0	-59.9	262.9	569.2	346.2	27.5	1.0000557	
153.4	43500.0	-59.9	256.8	569.0	346.9	26.4	1.0000556	
149.7	43500.0	-62.0	251.8	567.5	346.9	20.6	1.0000555	
146.1	43500.0	-63.1	247.0	566.1	346.9	24.2	1.0000554	
142.5	43500.0	-63.5	242.3	564.9	342.2	18.5	1.0000553	
139.0	43500.0	-64.2	236.9	563.9	335.9	16.6	1.0000552	
135.5	43500.0	-64.8	231.7	563.1	332.1	20.6	1.0000551	
132.2	43500.0	-65.3	226.6	562.6	332.2	26.5	1.0000550	
128.9	43500.0	-65.9	221.6	561.6	336.0	26.0	1.0000449	
125.8	43500.0	-66.4	216.7	560.9	331.8	26.0	1.0000448	
122.7	43500.0	-67.0	211.9	560.1	335.0	23.4	1.0000447	
119.6	43500.0	-67.5	207.3	559.4	329.4	21.6	1.0000446	
116.5	43500.0	-68.1	202.7	558.0	324.7	20.1	1.0000445	
113.5	43500.0	-68.7	198.0	557.5	317.8	17.8	1.0000444	
110.5	43500.0	-69.2	193.5	557.7	317.6	21.4	1.0000443	
107.5	43500.0	-69.8	188.4	557.8	326.7	21.4	1.0000442	
104.5	43500.0	-70.3	183.8	557.9	322.5	20.5	1.0000441	
101.5	43500.0	-70.8	179.2	557.9	342.6	22.5	1.0000440	
98.5	43500.0	-71.3	175.2	557.2	42.6	4.2	1.0000439	
95.5	43500.0	-71.7	171.2	556.9	22.0	2.2	1.0000438	
92.5	43500.0	-72.1	167.2	556.6	55.4	20.5	1.0000437	
89.5	43500.0	-72.5	163.2	556.6	65.8	16.2	1.0000436	
86.5	43500.0	-72.9	162.6	556.8	81.5	12.5	1.0000435	
83.5	43500.0	-73.3	158.5	556.9	105.6	9.5	1.0000434	
80.5	43500.0	-73.7	154.5	557.0	127.6	7.6	1.0000433	
77.5	43500.0	-74.1	150.5	557.0	128.5	5.1	1.0000432	
74.5	43500.0	-74.5	146.7	557.0	122.5	3.6	1.0000431	
71.5	43500.0	-75.0	142.2	558.9	60.6	3.6	1.0000430	
68.5	43500.0	-75.4	138.0	560.5	47.0	4.2	1.0000429	
65.5	43500.0	-75.8	133.6	562.7	67.0	2.2	1.0000428	
62.5	43500.0	-76.2	129.8	563.7	157.0	2.0	1.0000427	
59.5	43500.0	-76.6	126.7	564.7	171.7	6.7	1.0000426	
56.5	43500.0	-77.0	123.5	565.7	197.8	11.7	1.0000425	
53.5	43500.0	-77.4	120.4	566.7	204.0	10.6	1.0000424	
50.5	43500.0	-77.8	117.2	567.4	127.4	9.5	1.0000423	
47.5	43500.0	-78.2	114.1	568.1	120.5	9.5	1.0000422	
44.5	43500.0	-78.6	110.9	568.8	126.7	7.7	1.0000421	
41.5	43500.0	-79.0	107.8	569.3	112.5	6.7	1.0000420	
38.5	43500.0	-79.4	104.7	569.8	129.8	7.7	1.0000419	
35.5	43500.0	-79.8	101.5	570.3	126.7	6.7	1.0000418	
32.5	43500.0	-80.2	98.4	570.8	132.6	5.1	1.0000417	
29.5	43500.0	-80.6	95.4	571.3	139.7	5.1	1.0000416	
26.5	43500.0	-81.0	92.3	571.8	146.7	6.7	1.0000415	
23.5	43500.0	-81.4	89.2	572.3	153.7	7.7	1.0000414	
20.5	43500.0	-81.8	86.1	572.8	160.7	6.7	1.0000413	
17.5	43500.0	-82.2	83.0	573.3	167.7	5.1	1.0000412	
14.5	43500.0	-82.6	79.9	573.8	174.7	6.7	1.0000411	
11.5	43500.0	-83.0	76.8	574.3	181.7	7.7	1.0000410	
8.5	43500.0	-83.4	73.7	574.8	188.7	6.7	1.0000409	
5.5	43500.0	-83.8	70.6	575.3	195.7	5.1	1.0000408	
2.5	43500.0	-84.2	67.5	575.8	202.7	4.2	1.0000407	
-0.5	43500.0	-84.6	64.4	576.3	209.7	3.2	1.0000406	
2.5	43500.0	-85.0	61.3	576.8	216.7	2.2	1.0000405	
5.5	43500.0	-85.4	58.2	577.3	223.7	1.3	1.0000404	
8.5	43500.0	-85.8	55.1	577.8	230.7	0.4	1.0000403	
11.5	43500.0	-86.2	52.0	578.3	237.7	0.0	1.0000402	
14.5	43500.0	-86.6	48.9	578.8	244.7	-0.6	1.0000401	
17.5	43500.0	-87.0	45.8	579.3	251.7	-1.1	1.0000400	
20.5	43500.0	-87.4	42.7	579.8	258.7	-1.6	1.0000399	
23.5	43500.0	-87.8	39.6	580.3	265.7	-2.1	1.0000398	
26.5	43500.0	-88.2	36.5	580.8	272.7	-2.6	1.0000397	
29.5	43500.0	-88.6	33.4	581.3	279.7	-3.1	1.0000396	
32.5	43500.0	-89.0	30.3	581.8	286.7	-3.6	1.0000395	
35.5	43500.0	-89.4	27.2	582.3	293.7	-4.1	1.0000394	
38.5	43500.0	-89.8	24.1	582.8	300.7	-4.6	1.0000393	
41.5	43500.0	-90.2	21.0	583.3	307.7	-5.1	1.0000392	
44.5	43500.0	-90.6	17.9	583.8	314.7	-5.6	1.0000391	
47.5	43500.0	-91.0	14.8	584.3	321.7	-6.1	1.0000390	
50.5	43500.0	-91.4	11.7	584.8	328.7	-6.6	1.0000389	
53.5	43500.0	-91.8	8.6	585.3	335.7	-7.1	1.0000388	
56.5	43500.0	-92.2	5.5	585.8	342.7	-7.6	1.0000387	
59.5	43500.0	-92.6	2.4	586.3	349.7	-8.1	1.0000386	
62.5	43500.0	-93.0	-0.3	586.8	356.7	-8.6	1.0000385	
65.5	43500.0	-93.4	-3.1	587.3	363.7	-9.1	1.0000384	
68.5	43500.0	-93.8	-6.0	587.8	370.7	-9.6	1.0000383	
71.5	43500.0	-94.2	-8.9	588.3	377.7	-10.1	1.0000382	
74.5	43500.0	-94.6	-11.8	588.8	384.7	-10.6	1.0000381	
77.5	43500.0	-95.0	-14.7	589.3	391.7	-11.1	1.0000380	
80.5	43500.0	-95.4	-17.6	589.8	398.7	-11.6	1.0000379	
83.5	43500.0	-95.8	-20.5	590.3	405.7	-12.1	1.0000378	
86.5	43500.0	-96.2	-23.4	590.8	412.7	-12.6	1.0000377	
89.5	43500.0	-96.6	-26.3	591.3	419.7	-13.1	1.0000376	
92.5	43500.0	-97.0	-29.2	591.8	426.7	-13.6	1.0000375	
95.5	43500.0	-97.4	-32.1	592.3	433.7	-14.1	1.0000374	
98.5	43500.0	-97.8	-35.0	592.8	440.7	-14.6	1.0000373	
101.5	43500.0	-98.2	-37.9	593.3	447.7	-15.1	1.0000372	
104.5	43500.0	-98.6	-40.8	593.8	454.7	-15.6	1.0000371	
107.5	43500.0	-99.0	-43.7	594.3	461.7	-16.1	1.0000370	
110.5	43500.0	-99.4	-46.6	594.8	468.7	-16.6	1.0000369	
113.5	43500.0	-99.8	-49.5	595.3	475.7	-17.1	1.0000368	
116.5	43500.0	-100.2	-52.4	595.8	482.7	-17.6	1.0000367	
119.5	43500.0	-100.6	-55.3	596.3	489.7	-18.1	1.0000366	
122.5	43500.0	-101.0	-58.2	596.8	496.7	-18.6	1.0000365	
125.5	43500.0	-101.4	-61.1	597.3	503.7	-19.1	1.0000364	
128.5	43500.0	-101.8	-64.0	597.8	510.7	-19.6	1.0000363	
131.5	43500.0	-102.2	-66.9	598.3	517.7	-20.1	1.0000362	
134.5	43500.0	-102.6	-69.8	598.8	524.7	-20.6	1.0000361	
137.5	43500.0	-103.0	-72.7	599.3	531.7	-21.1	1.0000360	
140.5	43500.0	-103.4	-75.6	599.8	538.7	-21.6	1.0000359	
143.5	43500.0	-103.8	-78.5	600.3	545.7	-22.1	1.0000358	
146.5	43500.0	-104.2	-81.4	600.8	552.7	-22.6	1.0000357	
149.5	43500.0	-104.6	-84.3	601.3	559.7	-23.1	1.0000356	
152.5	43500.0	-105.0	-87.2	601.8	566.7	-23.6	1.0000355	
155.5	43500.0	-105.4	-90.1	602.3	573.7	-24.1	1.0000354	
158.5	43500.0	-105.8	-93.0	602.8	580.7	-24.6	1.0000353	
161.5	43500.0	-106.2	-95.9	603.3	587.7	-25.1	1.0000352	
164.5	43500.0	-106.6	-98.8	603.8	594.7	-25.6	1.0000351	
167.5	43500.0	-107.0	-101.7	604.3	601.7	-26.1	1.0000350	
170.5	43500.0	-107.4	-104.6	604.8	608.7	-26.6	1.0000349	
173.5	43500.0	-107.8	-107.5					

STATION ALTITUDE 3955.00 FEET PSL
2 SEP. 82 0925 HRS PDT
ASCENSION NO. 445

UPPER AIR DATA
2450G2045
WHITE SANDS
TABLE 20 Cont'd

GEOGRAPHIC COORDINATES
32°40'04" LAT 86°
396°37'03" LON 86°

GEOMETRIC ALTITUDE MSL FEET	PRESSURE MILLIBARS	TEMPERATURE AIR DEGREE CENTIGRADE	DEPOINT PERCENT	REL. HUM. PERCENT	SOUND METER KNOTS	SPEED OF WIND DATA KNOTS	INDEX OF REFRACTION	WIND DATA DIRECTION DEGREES	SPEED KNOTS	REFRACTION
63500.0	633.8	-63.6	-61.6	-61.6	-55.6	-55.6	1.0000024	116.1	102.4	7.0
64000.0	625.0	-62.5	-62.5	-62.5	-56.5	-56.5	1.0000023	109.2	106.2	10.6
64500.0	616.2	-57.2	-57.2	-57.2	-51.2	-51.2	1.0000023	109.3	109.7	10.7
65000.0	607.4	-52.0	-52.0	-52.0	-47.0	-47.0	1.0000023	108.4	108.4	10.7
65500.0	598.6	-56.8	-56.8	-56.8	-50.8	-50.8	1.0000023	107.5	107.5	10.7
66000.0	590.0	-50.4	-50.4	-50.4	-43.4	-43.4	1.0000023	102.9	102.9	10.7
66500.0	555.0	-55.5	-55.5	-55.5	-49.5	-49.5	1.0000023	105.4	105.4	10.7
67000.0	546.1	-56.1	-56.1	-56.1	-52.1	-52.1	1.0000023	104.5	104.5	10.7
67500.0	537.2	-52.7	-52.7	-52.7	-48.7	-48.7	1.0000023	103.6	103.6	10.7
68000.0	528.3	-53.2	-53.2	-53.2	-49.2	-49.2	1.0000023	102.7	102.7	10.7
68500.0	519.4	-51.9	-51.9	-51.9	-48.9	-48.9	1.0000023	101.8	101.8	10.7
69000.0	510.5	-51.5	-51.5	-51.5	-48.5	-48.5	1.0000023	100.9	100.9	10.7
69500.0	501.6	-51.1	-51.1	-51.1	-48.1	-48.1	1.0000023	100.0	100.0	10.7
70000.0	492.7	-50.7	-50.7	-50.7	-47.7	-47.7	1.0000023	99.1	99.1	10.7
70500.0	483.8	-49.3	-49.3	-49.3	-46.3	-46.3	1.0000023	98.2	98.2	10.7
71000.0	475.0	-48.9	-48.9	-48.9	-45.9	-45.9	1.0000023	97.3	97.3	10.7
71500.0	466.1	-47.5	-47.5	-47.5	-44.5	-44.5	1.0000023	96.4	96.4	10.7
72000.0	457.2	-46.1	-46.1	-46.1	-43.1	-43.1	1.0000023	95.5	95.5	10.7
72500.0	448.3	-44.7	-44.7	-44.7	-41.7	-41.7	1.0000023	94.6	94.6	10.7
73000.0	439.4	-43.3	-43.3	-43.3	-40.3	-40.3	1.0000023	93.7	93.7	10.7
73500.0	430.5	-41.9	-41.9	-41.9	-38.9	-38.9	1.0000023	92.8	92.8	10.7
74000.0	421.6	-40.5	-40.5	-40.5	-37.5	-37.5	1.0000023	91.9	91.9	10.7
74500.0	412.7	-39.1	-39.1	-39.1	-36.1	-36.1	1.0000023	91.0	91.0	10.7
75000.0	403.8	-37.7	-37.7	-37.7	-34.7	-34.7	1.0000023	90.1	90.1	10.7
75500.0	394.9	-36.3	-36.3	-36.3	-33.3	-33.3	1.0000023	89.2	89.2	10.7
76000.0	386.0	-34.9	-34.9	-34.9	-31.9	-31.9	1.0000023	88.3	88.3	10.7
76500.0	377.1	-33.5	-33.5	-33.5	-30.5	-30.5	1.0000023	87.4	87.4	10.7
77000.0	368.2	-32.1	-32.1	-32.1	-29.1	-29.1	1.0000023	86.5	86.5	10.7
77500.0	359.3	-30.7	-30.7	-30.7	-27.7	-27.7	1.0000023	85.6	85.6	10.7
78000.0	350.4	-29.3	-29.3	-29.3	-26.3	-26.3	1.0000023	84.7	84.7	10.7
78500.0	341.5	-27.9	-27.9	-27.9	-24.9	-24.9	1.0000023	83.8	83.8	10.7
79000.0	332.6	-26.5	-26.5	-26.5	-23.5	-23.5	1.0000023	82.9	82.9	10.7
79500.0	323.7	-25.1	-25.1	-25.1	-22.1	-22.1	1.0000023	82.0	82.0	10.7
80000.0	314.8	-23.7	-23.7	-23.7	-20.7	-20.7	1.0000023	81.1	81.1	10.7
80500.0	305.9	-22.3	-22.3	-22.3	-19.3	-19.3	1.0000023	80.2	80.2	10.7
81000.0	297.0	-20.9	-20.9	-20.9	-17.9	-17.9	1.0000023	79.3	79.3	10.7
81500.0	288.1	-19.5	-19.5	-19.5	-16.5	-16.5	1.0000023	78.4	78.4	10.7
82000.0	279.2	-18.1	-18.1	-18.1	-15.1	-15.1	1.0000023	77.5	77.5	10.7
82500.0	270.3	-16.7	-16.7	-16.7	-13.7	-13.7	1.0000023	76.6	76.6	10.7
83000.0	261.4	-15.3	-15.3	-15.3	-12.3	-12.3	1.0000023	75.7	75.7	10.7
83500.0	252.5	-13.9	-13.9	-13.9	-10.9	-10.9	1.0000023	74.8	74.8	10.7
84000.0	243.6	-12.5	-12.5	-12.5	-9.5	-9.5	1.0000023	73.9	73.9	10.7
84500.0	234.7	-11.1	-11.1	-11.1	-8.1	-8.1	1.0000023	73.0	73.0	10.7
85000.0	225.8	-9.7	-9.7	-9.7	-7.7	-7.7	1.0000023	72.1	72.1	10.7
85500.0	216.9	-8.3	-8.3	-8.3	-6.3	-6.3	1.0000023	71.2	71.2	10.7
86000.0	208.0	-6.9	-6.9	-6.9	-4.9	-4.9	1.0000023	70.3	70.3	10.7
86500.0	199.1	-5.5	-5.5	-5.5	-3.5	-3.5	1.0000023	69.4	69.4	10.7
87000.0	190.2	-4.1	-4.1	-4.1	-2.1	-2.1	1.0000023	68.5	68.5	10.7
87500.0	181.3	-2.7	-2.7	-2.7	-0.7	-0.7	1.0000023	67.6	67.6	10.7
88000.0	172.4	-1.3	-1.3	-1.3	-0.3	-0.3	1.0000023	66.7	66.7	10.7
88500.0	163.5	-0.9	-0.9	-0.9	-0.9	-0.9	1.0000023	65.8	65.8	10.7
89000.0	154.6	-0.5	-0.5	-0.5	-0.5	-0.5	1.0000023	64.9	64.9	10.7
89500.0	145.7	-0.1	-0.1	-0.1	-0.1	-0.1	1.0000023	64.0	64.0	10.7
90000.0	136.8	0.3	0.3	0.3	0.3	0.3	1.0000023	63.1	63.1	10.7
90500.0	127.9	0.7	0.7	0.7	0.7	0.7	1.0000023	62.2	62.2	10.7
91000.0	119.0	1.1	1.1	1.1	1.1	1.1	1.0000023	61.3	61.3	10.7
91500.0	110.1	1.5	1.5	1.5	1.5	1.5	1.0000023	60.4	60.4	10.7
92000.0	101.2	1.9	1.9	1.9	1.9	1.9	1.0000023	59.5	59.5	10.7
92500.0	92.3	2.3	2.3	2.3	2.3	2.3	1.0000023	58.6	58.6	10.7
93000.0	83.4	2.7	2.7	2.7	2.7	2.7	1.0000023	57.7	57.7	10.7
93500.0	74.5	3.1	3.1	3.1	3.1	3.1	1.0000023	56.8	56.8	10.7
94000.0	65.6	3.5	3.5	3.5	3.5	3.5	1.0000023	56.0	56.0	10.7
94500.0	56.7	3.9	3.9	3.9	3.9	3.9	1.0000023	55.2	55.2	10.7
95000.0	47.8	4.3	4.3	4.3	4.3	4.3	1.0000023	54.7	54.7	10.7
95500.0	38.9	4.7	4.7	4.7	4.7	4.7	1.0000023	53.8	53.8	10.7
96000.0	30.0	5.1	5.1	5.1	5.1	5.1	1.0000023	52.9	52.9	10.7
96500.0	21.1	5.5	5.5	5.5	5.5	5.5	1.0000023	52.0	52.0	10.7
97000.0	12.2	5.9	5.9	5.9	5.9	5.9	1.0000023	51.1	51.1	10.7
97500.0	3.3	6.3	6.3	6.3	6.3	6.3	1.0000023	50.2	50.2	10.7
98000.0	-5.8	6.7	6.7	6.7	6.7	6.7	1.0000023	49.3	49.3	10.7
98500.0	-14.7	7.1	7.1	7.1	7.1	7.1	1.0000023	48.4	48.4	10.7
99000.0	-23.6	7.5	7.5	7.5	7.5	7.5	1.0000023	47.5	47.5	10.7
99500.0	-32.5	7.9	7.9	7.9	7.9	7.9	1.0000023	46.6	46.6	10.7
100000.0	-41.4	8.3	8.3	8.3	8.3	8.3	1.0000023	45.7	45.7	10.7
100500.0	-50.3	8.7	8.7	8.7	8.7	8.7	1.0000023	44.8	44.8	10.7
101000.0	-59.2	9.1	9.1	9.1	9.1	9.1	1.0000023	43.9	43.9	10.7
101500.0	-68.1	9.5	9.5	9.5	9.5	9.5	1.0000023	43.0	43.0	10.7
102000.0	-77.0	9.9	9.9	9.9	9.9	9.9	1.0000023	42.1	42.1	10.7
102500.0	-85.9	10.3	10.3	10.3	10.3	10.3	1.0000023	41.2	41.2	10.7
103000.0	-94.8	10.7	10.7	10.7	10.7	10.7	1.0000023	40.3	40.3	10.7
103500.0	-103.7	11.1	11.1	11.1	11.1	11.1	1.0000023	39.4	39.4	10.7
104000.0	-112.6	11.5	11.5	11.5	11.5	11.5	1.0000023	38.5	38.5	10.7
104500.0	-121.5	11.9	11.9	11.9	11.9	11.9	1.0000023	37.6	37.6	10.7
105000.0	-130.4	12.3	12.3	12.3	12.3	12.3	1.0000023	36.7	36.7	10.7
105500.0	-139.3	12.7	12.7	12.7	12.7	12.7	1.0000023	35.8	35.8	10.7
106000.0	-148.2	13.1	13.1	13.1	13.1	13.1	1.0000023	34.9	34.9	10.7
106500.0	-157.1	13.5	13.5	13.5	13.5	13.5	1.0000023	34.0	34.0	10.7
107000.0	-166.0	13.9	13.9	13.9	13.9	13.9	1.0000023	33.1	33.1	10.7
107500.0	-174.9	14.3	14.3	14.3	14.3	14.3	1.0000023	32.2	32.2	10.7
108000.0	-183.8	14.7	14.7	14.7	14.7	14.7	1.0000023	31.3	31.3	10.7
108500.0	-192.7	15.1	15.1	15.1	15.1	15.1	1.0000023	30.4	30.4	10.7
109000.0	-201.6	15.5	15.5	15.5	15.5	15.5	1.0000023	29.5	29.5	10.7
109500.0	-210.5	15.9	1							

STATION ALTITUDE 5696'-C 1933 HRS MDT
2-25P. 8-45A
ACCESSION NO. 645

TABLE 20. Continued
UPPER AIR DATA
UNITED STATES
24-202345

STATION ALTITUDE 3989.20 FEET MSL
2 SEP. 82 0025 HRS MDT
ASCENSION NO. 445

UPPER AIR DATA
245CCG20445
WHITE SANDS
TABLE 20 Cont'd

GEODETIC COORDINATES
32.40043 LAT DEG
106.37033 LON DEG

GEODETIC ALTITUDE PSL FEET	PRESSURE INCHES OF MERCURY	TEMPERATURE AIR DEGREES CENTIGRADE	REL.HUM. PERCENT	SPEED OF CUBIC SOUND METER KNOTS	DIRECTION DEGREES(TW)	SPEED KNOTS	WIND DATA INDEX OF REFRACTION
103380.0	106.6	-76.8	100	15.6	596.0	38.0	1.000003
103380.0	120.1	-76.7	100	15.2	599.6	1.000003	1.000003
103380.0	115.1	-76.1	100	14.9	599.3	1.000003	1.000003
103380.0	96.9	-75.7	100	14.5	600.3	1.000003	1.000003
103380.0	90.7	-75.4	100	14.2	600.7	1.000003	1.000003
103380.0	90.5	-75.1	100	13.9	601.1	1.000003	1.000003

STATION ALTITUDE 3000 FEET MSL
2 SEP. 82 SWING HOTS WHT

ACCESSION NO. 45

MANUFACTURERS
2650020449
WHITE SWING
TABLE 21

EQUINOCTIAL COORDINATES
23° 40' 06.3" LAT 95°
152° 37' 03.3" LON 95°

MILLIBARS	FEET	PRESSURE GRADIENTAL			TEMPERATURE AIR, DEGREES CENTIGRADE	REL. HUM. PERCENT	DIRECTION DEGREES (TM) KNOTS	WIND DATA
		AIR	DEPOINT	CENTIGRADE				
525.0	5120.0	-25.1	-10.2	72.0	32.7	97.8	30.1	
500.0	6561.0	-22.3	-2.7	4.0	4.0	97.8	5.3	
475.0	8697.0	-16.3	-6.7	4.2	4.2	62.6	5.3	
450.0	10630.0	-14.2	-3.0	6.5	6.5	75.1	12.6	
425.0	12667.0	-8.3	-2.4	6.6	6.6	61.2	13.3	
400.0	14620.0	-2.4	-1.7	7.4	7.4	19.7	15.1	
375.0	17107.0	-2.7	-1.5	6.2	6.2	35.5	15.7	
350.0	19570.0	-6.8	-16.2	47.0	47.0	69.8	14.1	
325.0	22244.0	-11.5	-18.8	22.0	22.0	55.2	11.4	
300.0	25181.0	-17.2	-25.6	9.0	9.0	34.1	15.0	
275.0	27510.0	-25.2	-38.2	7.6	7.6	9.8	14.6	
250.0	30726.0	-35.7	-7.2	2.0	2.0	67.1	2.3	
225.0	32132.0	-43.7	-7.2			35.6	12.3	
200.0	40921.0	-56.0	-6.0			35.6	7	
175.0	43748.0	-58.7	-1.0			35.6	20.2	
150.0	46932.0	-64.2	-1.0			35.6	22.8	
125.0	50488.0	-69.1	-1.0			35.6	26.1	
100.0	53987.0	-75.0	-1.0			35.6	19.3	
75.0	59284.0	-80.0	-1.0			35.6	16.2	
50.0	61970.0	-79.0	-1.0			35.6	21.1	
25.0	65120.0	-60.0	-1.0			35.6	11.1	
0.0	68909.0	-57.4	-1.0			35.6	11.0	
300.0	73660.0	-150.0	-1.0			35.6	22.9	
300.0	76937.0	-148.1	-1.0			35.6	77.1	
250.0	79820.0	-145.7	-1.0			35.6	76.6	
200.0	82721.0	-143.7	-1.0			35.6	99.5	
150.0	95062.0	-142.1	-1.0			35.6	26.0	
100.0	106184.0	-135.0	-1.0			35.6	87.7	
0.0						35.6	20.1	

** AT LEAST ONE ASSURED RELATIVE HUMIDITY VALUE WAS USED IN THE INTERPOLATION.

STATION ALTITUDE 4751.70 FEET MSL
2 SEP. 82 1015 HRS MDT
ASCENSION NO. 13C

SIGNIFICANT LEVEL DATA
245P070130
JALLEN
TABLE 22

GEOGRAPHIC COORDINATES
33°16'12" LAT DEG
106.49511 LON DEG

PRESSURE GEOMETRIC MILLIBARS -MSL FEET	GEOMETRY ALTITUDE DEGREES	TEMPERATURE AIR DEMPONT CENTIGRADE	REL.HUM. PERCENT	
			DEGREES	CENTIGRADE
850.8	4051.0	31.0	14.2	36.0
870.0	4613.0	29.7	13.6	32.0
890.0	5290.7	27.3	10.1	34.0
915.0	5953.2	25.1	10.6	40.0
781.0	7571.5	23.1	8.3	40.0
730.0	10626.1	15.6	3.1	43.0
634.3	13343.7	8.2	2.4	67.0
595.2	15015.5	3.5	.7	80.0
562.4	16366.5	-1.2	-1.9	88.0
546.6	17315.5	-1.9	-5.9	74.0
516.5	18791.0	-4.9	-7.0	85.0
510.6	19096.6	-5.2	-13.7	65.0
520.0	19630.1	-5.9	-12.0	62.0
468.6	20646.8	-7.9	-13.3	65.0
438.8	21831.1	-9.4	-25.7	25.0
431.8	23367.2	-11.5	-25.5	70.0
430.0	23279.8	-16.2	-29.0	32.0
789.6	25931.3	-17.1	-32.8	24.0
537.4	29424.5	-23.8	-40.7	23.0
350.0	32186.3	-32.3	-46.0	24.0
281.3	33670.4	-36.5	-49.6	
250.0	36325.2	-47.2		
223.3	38710.6	-49.0		
230.0	41153.5	-54.4		
167.4	44864.6	-59.8		
165.6	45098.2	-58.1		
150.0	47126.5	-60.9		
135.6	49175.5	-64.8		
121.7	49767.4	-74.2		
119.4	5173.9	-96.7		
108.6	53613.3	-69.3		
130.0	55239.8	-69.0		
98.4	55537.5	-69.7		
92.1	56868.9	-56.5		
65.4	58376.3	-66.9		
82.4	59095.2	-67.6		
77.9	6021.6	-64.2		
70.0	62395.9	-62.7		
67.2	62230.9	-62.7		
56.2	66924.7	-56.4		

STATION ALTITUDE 4051.00 FT MSL
2 STEP. 82 HRS 105 HRS PDT
Assumption no. 110

SIGNIFICANT LEVEL DATA

2450030130

JALLEN

TABLE 22 Cont'd

PRESSURE GEOMETRIC	TEMPERATURE DEGREES CENTIGRADE
ALTITUDE MILLIBARS MSL FEET	AIR DEPOINT PERCENT
39.0 6918.6	-36.3
39.5 7442.5	-50.7

GEOGRAPHIC COORDINATES
33°16'12" LAT DEG
106°49'51" LON DEG

STATION ALTITUDE 40510' FEET MSL
2 SEP. 22 1972
ASCENSION NO. 130

UPPER AIR DATA
2650010135
JALLEN
TABLE 23

GEODETIC COORDINATES
3° 16' 12" LAT DEG
166° 49' 51" LONG DEG

GEODETIC ALTITUDE MSL FEET	PRESSURE MILLIBARS	TEMPERATURE AIR DEGREES CENTIGRADE	DEW POINT PERCENT	PERCENT SOUND SPEED	WIND DATA		REFraction
					DIRECTION DEGREES (TM)	SPEED KNOTS	
880.0	880.0	14.0	36.0	100.0	100.0	691.0	1.0
887.4	878.9	10.6	32.3	99.2	672.6	60.4	1.0
892.7	875.5	10.2	35.7	97.4	677.4	89.1	1.0
898.1	870.1	10.5	34.8	96.9	676.0	112.7	1.0
904.0	869.5	9.9	40.0	94.2	673.6	113.0	1.0
910.0	875.6	9.6	40.6	92.8	673.2	91.2	1.0
915.0	870.9	9.3	38.5	91.6	672.0	91.5	1.0
921.7	870.2	9.0	35.5	90.2	671.0	91.5	1.0
928.0	868.2	8.7	32.5	89.7	669.7	91.5	1.0
934.0	867.5	8.4	30.5	89.2	669.7	91.5	1.0
940.0	866.9	8.1	28.5	88.7	669.7	91.5	1.0
946.0	866.3	7.8	26.5	88.2	669.7	91.5	1.0
952.0	865.7	7.5	24.5	87.7	669.7	91.5	1.0
958.0	865.1	7.2	22.5	87.2	669.7	91.5	1.0
964.0	864.5	6.9	20.5	86.7	669.7	91.5	1.0
970.0	863.9	6.6	18.5	86.2	669.7	91.5	1.0
975.0	863.3	6.3	16.5	85.7	669.7	91.5	1.0
981.0	862.7	6.0	14.5	85.2	669.7	91.5	1.0
987.0	862.1	5.7	12.5	84.7	669.7	91.5	1.0
993.0	861.5	5.4	10.5	84.2	669.7	91.5	1.0
1000.0	860.9	5.1	8.5	83.7	669.7	91.5	1.0
1007.0	860.3	4.8	6.5	83.2	669.7	91.5	1.0
1014.0	859.7	4.5	4.5	82.7	669.7	91.5	1.0
1021.0	859.1	4.2	2.5	82.2	669.7	91.5	1.0
1028.0	858.5	3.9	0.5	81.7	669.7	91.5	1.0
1035.0	857.9	3.6	-1.5	81.2	669.7	91.5	1.0
1042.0	857.3	3.3	-3.5	80.7	669.7	91.5	1.0
1049.0	856.7	3.0	-5.5	80.2	669.7	91.5	1.0
1056.0	856.1	2.7	-7.5	79.7	669.7	91.5	1.0
1063.0	855.5	2.4	-9.5	79.2	669.7	91.5	1.0
1070.0	854.9	2.1	-11.5	78.7	669.7	91.5	1.0
1077.0	854.3	1.8	-13.5	78.2	669.7	91.5	1.0
1084.0	853.7	1.5	-15.5	77.7	669.7	91.5	1.0
1091.0	853.1	1.2	-17.5	77.2	669.7	91.5	1.0
1098.0	852.5	0.9	-19.5	76.7	669.7	91.5	1.0
1105.0	851.9	0.6	-21.5	76.2	669.7	91.5	1.0
1112.0	851.3	0.3	-23.5	75.7	669.7	91.5	1.0
1119.0	850.7	0.0	-25.5	75.2	669.7	91.5	1.0
1126.0	850.0	-1.3	-27.5	74.7	669.7	91.5	1.0
1133.0	849.4	-1.6	-29.5	74.2	669.7	91.5	1.0
1140.0	848.7	-1.9	-31.5	73.7	669.7	91.5	1.0
1147.0	848.1	-2.2	-33.5	73.2	669.7	91.5	1.0
1154.0	847.4	-2.5	-35.5	72.7	669.7	91.5	1.0
1161.0	846.8	-2.8	-37.5	72.2	669.7	91.5	1.0
1168.0	846.1	-3.1	-39.5	71.7	669.7	91.5	1.0
1175.0	845.4	-3.4	-41.5	71.2	669.7	91.5	1.0
1182.0	844.8	-3.7	-43.5	70.7	669.7	91.5	1.0
1189.0	844.1	-4.0	-45.5	70.2	669.7	91.5	1.0
1196.0	843.4	-4.3	-47.5	69.7	669.7	91.5	1.0
1203.0	842.8	-4.6	-49.5	69.2	669.7	91.5	1.0
1210.0	842.1	-4.9	-51.5	68.7	669.7	91.5	1.0
1217.0	841.4	-5.2	-53.5	68.2	669.7	91.5	1.0
1224.0	840.8	-5.5	-55.5	67.7	669.7	91.5	1.0
1231.0	840.1	-5.8	-57.5	67.2	669.7	91.5	1.0
1238.0	839.4	-6.1	-59.5	66.7	669.7	91.5	1.0
1245.0	838.8	-6.4	-61.5	66.2	669.7	91.5	1.0
1252.0	838.1	-6.7	-63.5	65.7	669.7	91.5	1.0
1259.0	837.4	-7.0	-65.5	65.2	669.7	91.5	1.0
1266.0	836.7	-7.3	-67.5	64.7	669.7	91.5	1.0
1273.0	836.0	-7.6	-69.5	64.2	669.7	91.5	1.0
1280.0	835.3	-7.9	-71.5	63.7	669.7	91.5	1.0
1287.0	834.6	-8.2	-73.5	63.2	669.7	91.5	1.0
1294.0	833.9	-8.5	-75.5	62.7	669.7	91.5	1.0
1301.0	833.2	-8.8	-77.5	62.2	669.7	91.5	1.0
1308.0	832.5	-9.1	-79.5	61.7	669.7	91.5	1.0
1315.0	831.8	-9.4	-81.5	61.2	669.7	91.5	1.0
1322.0	831.1	-9.7	-83.5	60.7	669.7	91.5	1.0
1329.0	830.4	-10.0	-85.5	60.2	669.7	91.5	1.0
1336.0	829.7	-10.3	-87.5	59.7	669.7	91.5	1.0
1343.0	829.0	-10.6	-89.5	59.2	669.7	91.5	1.0
1350.0	828.3	-10.9	-91.5	58.7	669.7	91.5	1.0
1357.0	827.6	-11.2	-93.5	58.2	669.7	91.5	1.0
1364.0	826.9	-11.5	-95.5	57.7	669.7	91.5	1.0
1371.0	826.2	-11.8	-97.5	57.2	669.7	91.5	1.0
1378.0	825.5	-12.1	-99.5	56.7	669.7	91.5	1.0
1385.0	824.8	-12.4	-101.5	56.2	669.7	91.5	1.0
1392.0	824.1	-12.7	-103.5	55.7	669.7	91.5	1.0
1400.0	823.4	-13.0	-105.5	55.2	669.7	91.5	1.0
1407.0	822.7	-13.3	-107.5	54.7	669.7	91.5	1.0
1414.0	822.0	-13.6	-109.5	54.2	669.7	91.5	1.0
1421.0	821.3	-13.9	-111.5	53.7	669.7	91.5	1.0
1428.0	820.6	-14.2	-113.5	53.2	669.7	91.5	1.0
1435.0	820.0	-14.5	-115.5	52.7	669.7	91.5	1.0
1442.0	819.3	-14.8	-117.5	52.2	669.7	91.5	1.0
1449.0	818.6	-15.1	-119.5	51.7	669.7	91.5	1.0
1456.0	818.0	-15.4	-121.5	51.2	669.7	91.5	1.0
1463.0	817.3	-15.7	-123.5	50.7	669.7	91.5	1.0
1470.0	816.7	-16.0	-125.5	50.2	669.7	91.5	1.0
1477.0	816.0	-16.3	-127.5	49.7	669.7	91.5	1.0
1484.0	815.3	-16.6	-129.5	49.2	669.7	91.5	1.0
1491.0	814.7	-16.9	-131.5	48.7	669.7	91.5	1.0
1498.0	814.0	-17.2	-133.5	48.2	669.7	91.5	1.0
1505.0	813.4	-17.5	-135.5	47.7	669.7	91.5	1.0
1512.0	812.7	-17.8	-137.5	47.2	669.7	91.5	1.0
1519.0	812.1	-18.1	-139.5	46.7	669.7	91.5	1.0
1526.0	811.4	-18.4	-141.5	46.2	669.7	91.5	1.0
1533.0	810.8	-18.7	-143.5	45.7	669.7	91.5	1.0
1540.0	810.1	-19.0	-145.5	45.2	669.7	91.5	1.0
1547.0	809.4	-19.3	-147.5	44.7	669.7	91.5	1.0
1554.0	808.8	-19.6	-149.5	44.2	669.7	91.5	1.0
1561.0	808.1	-19.9	-151.5	43.7	669.7	91.5	1.0
1568.0	807.5	-20.2	-153.5	43.2	669.7	91.5	1.0
1575.0	806.8	-20.5	-155.5	42.7	669.7	91.5	1.0
1582.0	806.2	-20.8	-157.5	42.2	669.7	91.5	1.0
1589.0	805.5	-21.1	-159.5	41.7	669.7	91.5	1.0
1596.0	804.9	-21.4	-161.5	41.2	669.7	91.5	1.0
1603.0	804.2	-21.7	-163.5	40.7	669.7	91.5	1.0
1610.0	803.6	-22.0	-165.5	40.2	669.7	91.5	1.0
1617.0	802.9	-22.3	-167.5	39.7	669.7	91.5	1.0
1624.0	802.3	-22.6	-169.5	39.2	669.7	91.5	1.0
1631.0	801.6	-22.9	-171.5	38.7	669.7	91.5	1.0
1638.0	801.0	-23.2	-173.5	38.2	669.7	91.5	1.0
1645.0	800.4	-23.5	-175.5	37.7	669.7	91.5	1.0
1652.0	800.0	-23.8	-177.5	37.2	669.7	91.5	1.0
1659.0	799.5	-24.1	-179.5	36.7	669.7	91.5	1.0
1666.0	799.0	-24.4	-181.5	36.2	669.7	91.5	1.0
1673.0	798.5	-24.7	-183.5	35.7	669.7	91.5	1.0
1680.0	798.0	-25.0	-185.5	35.2	669.7	91.5	1.0
1687.0	797.5	-25.3	-187.5	34.7	669.7	91.5	1.0
1694.0	797.0	-25.6	-189.5	34.2	669.7	91.5	1.0
1701.0	796.5	-25.9	-191.5	33.7	669.7	91.5	1.0
1708.0	796.0	-26.2	-193.5	33.2	669.7	91.5	1.0
1715.0	795.5	-26.5	-195.5	32.7	669.7	91.5	1.0
1722.0	795.0	-26.8	-197.5	32.2	669.7	91.5	1.0
1729.0	794.5	-27.1	-199.5	31.7	669.7	91.5	1.0
1736.0	794.0	-27.4	-201.5	31.2	669.7	91.5	1.0
1743.0	793.5	-27.7	-203.5	30.7	669.7	91.5	1.0
1750.0	793.0	-28.0	-205.5	30.2	669.7	91.5	1.0
1757.0	792.5	-28.3	-207.5	29.7	669.7	91.5	1.0
1764.0	792.0	-28.6	-209.5	29.2	669.7	91.5	1.0
1771.0	791.5	-28.9	-211.5	28.7	669.7	91.5	1.0
1778.0	791.0	-29.2	-213.5	28.2	669.7	91.5	1.0
1785.0	790.5	-29.5	-215.5				

STATION ALTITUDE 4051.50 FEET "SL
2 SEP. 86
ASCENSION NO. 130

UPPER AIR DATA
24500-0130
JALLEN
TABLE 23 Cont'd

GEODETIC COORDINATES
33°16'12" LAT DEC
106°49'51" LON DEC

GEOMETRIC PRESSURE
ALTITUDE
NSL FEET MILLIBARS DEGREES CENTIGRADE

REL.HUM. TEMPERATURE
AIR DEPOINT
PERCENT
CMB/CUBIC METER

WIND DATA
DIRECTION SPEED
DEGREES(TWD) KNOTS

INDEX
OF
REFRACTION

24000.0	421.0	-13.1	563.5	628.5	29.2	11.1
24500.0	412.7	-14.3	555.0	627.0	27.3	11.3
25000.0	404.5	-15.5	546.7	625.5	25.7	11.6
25500.0	396.5	-16.5	537.9	624.3	25.1	12.2
26000.0	388.5	-17.3	529.7	623.3	24.1	12.6
26500.0	380.6	-18.3	521.9	621.8	21.5	13.0
27000.0	372.8	-19.0	514.2	620.2	18.9	13.4
27500.0	365.2	-21.0	506.5	618.7	16.1	13.8
28000.0	357.8	-22.3	498.6	617.4	17.0	14.2
28500.0	350.5	-23.5	490.6	616.2	15.0	14.6
29000.0	343.3	-24.7	482.1	614.1	13.5	15.0
29500.0	336.3	-26.0	473.7	612.5	12.4	15.4
30000.0	329.2	-27.2	465.2	611.1	11.3	15.8
30500.0	322.3	-28.3	456.6	609.6	10.2	16.2
31000.0	315.5	-29.5	448.0	608.1	9.1	16.6
31500.0	308.9	-30.7	439.4	606.7	8.0	17.0
32000.0	302.4	-31.9	430.8	605.2	7.0	17.4
32500.0	296.0	-33.2	422.2	603.5	5.9	17.8
33000.0	289.6	-34.4	413.6	601.7	4.8	18.2
33500.0	283.4	-35.6	405.0	599.9	3.7	18.6
34000.0	277.2	-37.3	396.4	598.5	2.6	19.0
34500.0	271.1	-38.6	387.8	596.7	1.5	19.4
35000.0	265.2	-39.9	379.2	595.1	0.4	19.8
35500.0	259.3	-41.1	370.4	593.4	-0.5	20.2
36000.0	253.6	-42.4	361.6	591.8	-1.6	20.6
36500.0	248.0	-43.6	352.9	590.2	-2.6	21.0
37000.0	242.4	-44.8	344.2	588.7	-3.5	21.4
37500.0	236.9	-46.0	335.5	587.1	-4.4	21.8
38000.0	231.6	-47.2	326.7	585.6	-5.3	22.2
38500.0	226.4	-48.4	318.0	584.0	-6.2	22.6
39000.0	221.2	-49.6	309.3	582.5	-7.1	23.0
39500.0	216.1	-50.7	300.6	581.1	-8.0	23.4
40000.0	211.1	-51.9	291.9	579.6	-8.9	23.8
40500.0	206.2	-53.0	283.2	578.1	-9.8	24.2
41000.0	201.4	-54.1	274.5	576.6	-10.7	24.6
41500.0	196.7	-54.9	265.8	575.5	-11.6	25.0
42000.0	192.0	-55.6	257.0	574.6	-12.5	25.4
42200.0	187.5	-56.4	251.0	573.6	-13.4	25.8
42500.0	183.1	-57.1	245.1	572.6	-14.3	26.2
43000.0	178.7	-57.6	239.1	571.7	-15.2	26.6

** AT LEAST ONE ASSUMED RELATIVE HUMIDITY VALUE WAS USED IN THE INTERPOLATION.

STATION ALTITUDE 4051.00 FEET "SL
2 SEP. 82 1015 HRS MDT
ASCESSION NO. 130

UPPER AIR DATA
243-030130 JALLEN TABLE 23 Cont'd

GEODETIC COORDINATES
33°16'7.12 LAT DEG
106°49'51.1 LON DEG

GEODETIC ALTITUDE NSL FEET	PRESSURE MILLIBARS	TEMPERATURE DEGREES CENTIGRADE	REL.HUM. PERCENT	SOUND METER KNOTS	DIRECTION DEGREES(TN)	SPEED KNOTS	WIND DATA INCHES OF REFRACTION
4400.0	1014.5	-55.5	100.0	317.7	21°.7	1.000063	
4500.0	1010.4	-59.3	100.0	317.7	21°.7	1.000062	
4600.0	1006.3	-58.5	100.0	317.7	21°.7	1.000061	
4700.0	1002.3	-58.7	100.0	317.7	21°.7	1.000060	
4800.0	998.6	-59.0	100.0	317.7	21°.7	1.000059	
4900.0	995.0	-59.3	100.0	317.7	21°.7	1.000058	
5000.0	991.5	-58.5	100.0	317.7	21°.7	1.000057	
5100.0	988.0	-59.0	100.0	317.7	21°.7	1.000056	
5200.0	984.5	-58.7	100.0	317.7	21°.7	1.000055	
5300.0	981.0	-58.5	100.0	317.7	21°.7	1.000054	
5400.0	977.5	-58.0	100.0	317.7	21°.7	1.000053	
5500.0	974.0	-57.5	100.0	317.7	21°.7	1.000052	
5600.0	970.5	-57.0	100.0	317.7	21°.7	1.000051	
5700.0	967.0	-56.5	100.0	317.7	21°.7	1.000050	
5800.0	963.5	-56.0	100.0	317.7	21°.7	1.000049	
5900.0	960.0	-55.5	100.0	317.7	21°.7	1.000048	
6000.0	956.5	-55.0	100.0	317.7	21°.7	1.000047	
6100.0	953.0	-54.5	100.0	317.7	21°.7	1.000046	
6200.0	949.5	-54.0	100.0	317.7	21°.7	1.000045	
6300.0	946.0	-53.5	100.0	317.7	21°.7	1.000044	
6400.0	942.5	-53.0	100.0	317.7	21°.7	1.000043	
6500.0	939.0	-52.5	100.0	317.7	21°.7	1.000042	
6600.0	935.5	-52.0	100.0	317.7	21°.7	1.000041	
6700.0	932.0	-51.5	100.0	317.7	21°.7	1.000040	
6800.0	928.5	-51.0	100.0	317.7	21°.7	1.000039	
6900.0	925.0	-50.5	100.0	317.7	21°.7	1.000038	
7000.0	921.5	-50.0	100.0	317.7	21°.7	1.000037	
7100.0	918.0	-49.5	100.0	317.7	21°.7	1.000036	
7200.0	914.5	-49.0	100.0	317.7	21°.7	1.000035	
7300.0	911.0	-48.5	100.0	317.7	21°.7	1.000034	
7400.0	907.5	-48.0	100.0	317.7	21°.7	1.000033	
7500.0	904.0	-47.5	100.0	317.7	21°.7	1.000032	
7600.0	900.5	-47.0	100.0	317.7	21°.7	1.000031	
7700.0	907.0	-46.5	100.0	317.7	21°.7	1.000030	
7800.0	903.5	-46.0	100.0	317.7	21°.7	1.000029	
7900.0	900.0	-45.5	100.0	317.7	21°.7	1.000028	
8000.0	896.5	-45.0	100.0	317.7	21°.7	1.000027	
8100.0	893.0	-44.5	100.0	317.7	21°.7	1.000026	
8200.0	889.5	-44.0	100.0	317.7	21°.7	1.000025	
8300.0	886.0	-43.5	100.0	317.7	21°.7	1.000024	
8400.0	882.5	-43.0	100.0	317.7	21°.7	1.000023	
8500.0	879.0	-42.5	100.0	317.7	21°.7	1.000022	
8600.0	875.5	-42.0	100.0	317.7	21°.7	1.000021	
8700.0	872.0	-41.5	100.0	317.7	21°.7	1.000020	
8800.0	868.5	-41.0	100.0	317.7	21°.7	1.000019	
8900.0	865.0	-40.5	100.0	317.7	21°.7	1.000018	
9000.0	861.5	-40.0	100.0	317.7	21°.7	1.000017	
9100.0	858.0	-39.5	100.0	317.7	21°.7	1.000016	
9200.0	854.5	-39.0	100.0	317.7	21°.7	1.000015	
9300.0	851.0	-38.5	100.0	317.7	21°.7	1.000014	
9400.0	847.5	-38.0	100.0	317.7	21°.7	1.000013	
9500.0	844.0	-37.5	100.0	317.7	21°.7	1.000012	
9600.0	840.5	-37.0	100.0	317.7	21°.7	1.000011	
9700.0	837.0	-36.5	100.0	317.7	21°.7	1.000010	
9800.0	833.5	-36.0	100.0	317.7	21°.7	1.000009	
9900.0	830.0	-35.5	100.0	317.7	21°.7	1.000008	
10000.0	826.5	-35.0	100.0	317.7	21°.7	1.000007	

STATION ALTITUDE 4531.00 FEET MSL
2 SEP. 52 1015 HRS HDT
ASCENSION NO. 130

UPPER AIR DATA
245CUTG132
JALLER

TABLE 23 Cont'd

GEODETIC ALTITUDE ASL FEET	PRESSURE ATQ MILLIBARS	TEMPERATURE DEGREES CENTIGRADE	RELIEF POINT DEGREES CENTIGRADE	PERCENT GEM/LUBIC	SOUND METER	WIND SPEED IN M/OTS	WIND DIRECTION IN DEGREES (TN)	INDEX OF REFRACTION
64500.0	63.2	-61.4	103.5	568.1	113.7	6.8	1.000023	
65500.0	61.7	-59.5	104.7	569.3	115.5	7	1.000022	
65500.0	60.2	-58.8	97.9	570.3	116.8	6.7	1.000021	
66500.0	58.8	-52.0	95.2	571.5	112.5	6.6	1.000021	
66500.0	57.4	-37.1	92.5	572.6	107.7	6.6	1.000021	
67500.0	56.0	-6.3	91.0	573.6	99.7	6.5	1.000020	
67500.0	54.7	-55.9	87.7	574.2	85.8	6.8	1.000020	
68500.0	53.4	-55.5	85.5	574.8	77.5	7.4	1.000019	
68500.0	52.2	-55.1	81.5	575.3	73.0	9.7	1.000019	
69500.0	50.9	-56.0	81.2	575.9	77.7	11.7	1.000018	
69500.0	49.7	-56.2	79.1	576.4	80.1	14.1	1.000018	
70500.0	48.6	-53.6	77.0	576.9	75.0	15.5	1.000017	
70500.0	47.5	-53.5	75.7	577.6	72.1	16.9	1.000017	
71500.0	46.4	-43.1	72.4	577.8	68.9	18.6	1.000016	
71500.0	45.3	-52.8	71.6	578.3	66.6	19.5	1.000016	
72500.0	44.2	-52.4	69.8	578.6	64.6	20.6	1.000016	
72500.0	43.2	-52.1	68.1	579.2	61.5	1.000015		
73500.0	42.2	-51.7	66.6	579.7	58.2	1.000015		
74500.0	41.2	-51.4	65.8	580.2	56.7	1.000014		
								1.000014

STATION ALTITUDE 40510 FEET MSL
2 SEP. 82 0510Z METS MDT
ASCENSION NO. 130

TABLE 24
AEROMETRIC LEVELS
JALLEN
2450830130

EARTH STATION COORDINATES
33°46'12" LAT 60°
106°49'51" LON 60°

PRESSURE (GEOPOTENTIAL MILLIBARS)	FEET	DEGREES CENTIGRADE	REL. HUM. PERCENT	WIND DIRECTION DEGREES (TRUE) KNOTS	WIND SPEED KNOTS
950.0	5087.	27.3	10.1	24.	6.0
900.0	6936.	24.0	9.6	40.	6.3
750.0	8679.	20.3	6.7	61.	5.3
700.0	10618.	15.6	7.1	43.	3.3
650.0	12661.	10.0	2.9	61.	9.3
600.0	14828.	4.3	7.9	87.5	11.7
550.0	17131.	-1.5	5.0	67.0	8.2
500.0	19403.	-5.9	-12.0	61.9	7.6
450.0	22289.	-10.1	-25.6	27.	10.8
400.0	25238.	-16.2	-32.0	32.	11.9
350.0	28195.	-22.3	-46.0	25.	12.1
300.0	32125.	-27.6	-52.0	17.1	11.7
250.0	36246.	-33.2	-58.5	32.5	19.2
200.0	41055.	-39.4	-58.5	362.3	31.0
175.0	43336.	-45.9	-63.9	30.7	25.2
150.0	47003.	-60.6	-62.7	127.1	14.2
125.0	50672.	-65.6	-69.0	1.1	1.1
100.0	53070.	-69.0	-69.0	11.2	1.1
80.0	59497.	-63.9	-63.9	11.2	1.1
70.0	62187.	-62.7	-62.7	11.2	1.1
60.0	65329.	-58.7	-58.7	11.6	1.1
50.0	69126.	-54.3	-54.3	11.6	1.1
40.0	73958.	-50.9	-50.9	11.6	1.1

" AT LEAST ONE ASSUMED RELATIVE HUMIDITY VALUE WAS USED IN THE INTERPOLATION.